

PRICE LIST





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Ordering Information

Hours of Operation:

Extended hours from 8:00 AM to 8:00 PM (Eastern Standard Time) Monday - Friday. To place an order or request a catalog after business hours, or on weekends, you may send us a fax or visit our website.

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Method of Payment:

Payment terms are net thirty (30) days. 1.5% interest per month may be charged on past due accounts.



VISA



MasterCard and



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Prices and Payment Terms:

Prices will remain in effect until December 31, 2022. All prices listed in this catalog are in U.S. Dollars. Prices are subject to change without notice. Prices in this catalog are not valid for distributors. Payment terms are net 30 days from receipt of invoice.

Shipping:

PeproTech's products have been formulated to allow shipment at ambient temperature. If your purchase order is received before 8:00 pm (EST), all available items are shipped by Federal Express for next day delivery.

Return Policy:

Any claim for credit or return goods must be made within 7 days of receipt. PeproTech will not accept returned products without prior authorization. No credit or replacement will be issued without a return authorization number. All returns are subject to a 20% return fee unless the products are returned due to lack of conformity with the specifications on PeproTech's Certificates of Analysis (CoAs) or data sheets. Please call Customer Service for return instructions.

Warranty:

PeproTech warrants to the original purchaser that products sold substantially conform to specifications provided with shipped products and are free from material defects. This warranty does not extend to any product which has been altered in any way by personnel other than PeproTech's employees or to any product which has been handled in a manner contrary to instructions included in product documentation. PeproTech is not responsible for patent infringement or other violations which may occur with the use of these products. PeproTech makes no warranty of the product's suitability for any purchaser's particular use; suitability for use must be determined by the purchaser or user of the products. All other warranties, expressed or implied, are disclaimed to the fullest extent allowed by law. Purchaser's sole remedy under the above warranty shall be replacement with a conforming product, a credit toward future purchases of PeproTech products or, at PeproTech's sole discretion, a refund of the price of the product. If there is a question or concern, please contact our Quality Assurance Department (QualityAssurance@PeproTech.com) immediately so we may assist you.

Resale:

In the absence of an expressed written agreement to the contrary, all products are sold by PeproTech, Inc. for the exclusive use of the purchaser and are not to be resold.

Information Changes:

This catalog contains current information on PeproTech products. PeproTech reserves the right to discontinue sales of any product or to change product descriptions and/or formulations at any time without notice to purchasers.

Product Use Limitations:

PeproTech products are offered for research use only. Not for human use. Purchasers of PeproTech products agree to comply with the provisions of applicable federal, state and local statutes, rules, regulations, ordinances and orders with use of PeproTech products.

www.thermofisher.com/peprotech

For comprehensive information about our products, visit our website at **www.thermofisher.com/peprotech.com**. Our website is an easy way to get up-to-date information on new products, references, technical documents and much more. For your assurance, PeproTech's website uses secure on-line ordering. All online orders obtained Monday-Friday during normal business hours (EST) will be processed the same day.

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GMP Cytokines



Helping unlock the promise of Cellular Therapies and Regenerative Medicines

In response to our clients' needs, and the requirements of the cell and gene therapy markets, we are pleased to introduce our new state-of-the-art manufacturing facility in Cranbury, NJ.

The rapidly evolving field of regenerative medicine offers exciting opportunities to develop new solutions for an array of diseases, injuries, and genetic disorders. With the recent expansion of our new facility, PeproTech is able to meet the demand of the advancing markets in cell, gene, and tissue therapies. Our 65,000 square foot facility has significantly more square footage for GMP cleanrooms and supports the manufacturing of our bacterial expressed GMP products and expansion into cell culture derived GMP products.



PeproGMP® Cytokines offer the same safety, purity, and simplified use in *ex vivo* manufacturing processes, as described in USP (United States Pharmacopeia) Chapter <1043> Ancillary Materials for Cell, Gene, and Tissue-Engineered Products.

Consistent with U.S. federal requirements and best practices for cell therapy, gene therapy, and tissue-engineered products for clinical applications, PeproGMP® Cytokines are manufactured and tested in compliance with relevant US FDA GMP (Good Manufacturing Practices) regulations and the ISO 9001 quality management systems standard, without the use of animal-derived materials.

- Controlled-certified ISO7 and ISO8 Cleanrooms
- Qualification & Validation Program
- Materials Management (Including supplier qualification, controlled & qualified raw materials)
- 100% Traceability
- Personnel Training Program
- Environmental Monitoring
- Equipment Calibration & Maintenance
- Rigorous Quality Control Program
- Documentation Control & Records
- Stability Program
- Controlled Processes
- QA Review & Support
- Master Quality & Supply Agreement
- Aseptic Techniques & Sterile Filtration
- Management Review
- Compliant and Recall Procedures

PeproGMP® Cytokines

PRODUCT DESCRIPTION	CATALOG NUMBER	SIZE	PRICE
PeproGMP® Human Activin A	GMP120-14E-50UG	50µg	\$600
PeproGMP® Human Activin A	GMP120-14E-100UG	100µg	\$1,000
PeproGMP® Human IL-2	GMP200-02-50UG	50µg	\$375
PeproGMP® Human IL-2	GMP200-02-100UG	100µg	\$700
PeproGMP® Human IL-2	GMP200-02-1MG	1mg	\$2,300
PeproGMP® Human IL-3	GMP200-03-50UG	50µg	\$775
PeproGMP® Human IL-3	GMP200-03-100UG	100µg	\$1,450
PeproGMP® Human IL-3	GMP200-03-1MG	1mg	Please inquire
PeproGMP® Human IL-6	GMP200-06-10UG	10µg	\$290
PeproGMP® Human IL-6	GMP200-06-100UG	100µg	\$1,450
PeproGMP® Human IL-7	GMP200-07-50UG	50µg	\$1,200
PeproGMP® Human IL-7	GMP200-07-100UG	100µg	\$2,000
PeproGMP® Human IL-15	GMP200-15-50UG	50µg	\$775
PeproGMP® Human IL-15	GMP200-15-100UG	100µg	\$1,450
PeproGMP® Human IL-21	GMP200-21-50UG	50µg	\$1,200
PeproGMP® Human IL-21	GMP200-21-100UG	100µg	\$2,000
PeproGMP® Human IL-21	GMP200-21-1MG	1mg	Please inquire
PeproGMP® Human EGF	GMP100-15-100UG	100µg	\$450
PeproGMP® Human EGF	GMP100-15-500UG	500µg	\$1,000
PeproGMP® Human EGF	GMP100-15-1MG	1mg	\$1,800
PeproGMP® Human FGF-basic	GMP100-18B-25UG	25µg	\$240
PeproGMP® Human FGF-basic	GMP100-18B-100UG	100µg	\$720
PeproGMP® Human FGF-basic	GMP100-18B-1MG	1mg	\$3,600
PeproGMP® Human Flt3-Ligand	GMP300-19-50UG	50µg	\$870
PeproGMP® Human Flt3-Ligand	GMP300-19-100UG	100µg	\$1,450
PeproGMP® Human Heregulinβ-1	GMP100-03-50UG	50µg	\$375
PeproGMP® Human Heregulinβ-1	GMP100-03-100UG	100µg	\$700
PeproGMP® Human Heregulinβ-1	GMP100-03-1MG	1mg	Please inquire
PeproGMP® Human KGF	GMP100-19-50UG	50µg	\$775
PeproGMP® Human KGF	GMP100-19-100UG	100µg	\$1,450
PeproGMP® Human KGF	GMP100-19-1MG	1mg	Please inquire
PeproGMP® Human LIF	GMP300-05-50UG	50µg	\$775
PeproGMP® Human LIF	GMP300-05-100UG	100µg	\$1,450
PeproGMP® Human PDGF-AA	GMP100-13A-50UG	50µg	\$600
PeproGMP® Human PDGF-AA	GMP100-13A-100UG	100µg	\$1,000
PeproGMP® Human SCF	GMP300-07-50UG	50µg	\$775
PeproGMP® Human SCF	GMP300-07-100UG	100µg	\$1,450
PeproGMP® Human SCF	GMP300-07-1MG	1mg	Please inquire
PeproGMP® Human TPO	GMP300-18-50UG	50µg	\$1,050
PeproGMP® Human TPO	GMP300-18-100UG	100µg	\$1,750
PeproGMP® Human VEGF ₁₆₅	GMP100-20-50UG	50µg	\$600
PeproGMP® Human VEGF ₁₆₅	GMP100-20-100UG	100µg	\$1,000
PeproGMP® Human VEGF ₁₆₅	GMP100-20-1MG	1mg	\$7,000

We are continually adding new GMP products. Please contact gmp@peprotech.com for our most up-to-date product list.

Quality Assurance/Quality Control

PeproTech ensures that all aspects of our quality management system from management of raw materials and equipment to facilities maintenance (environmental monitoring), manufacturing processes, audits, and inspection processes are in compliance with relevant US FDA GMPs and all applicable regulatory and standards requirements.

We perform extensive quality control testing to verify that PeproGMP® Cytokines meet rigorous standards for purity, identity, safety, activity, and consistency.

We would love to share more about our PeproGMP® Cytokines. Please contact our Quality Assurance Department at 800-436-9910 prompt number 4 or e-mail us at gmp@peprotech.com for more information regarding our PeproGMP® product line.

Cell Culture Media Products

CELL CULTURE MEDIA

PeproGrow™ hMSC Medium

Maintenance Media for human Mesenchymal Stem Cells

PeproGrow™ hMSC Medium is a xeno-free, human serum containing, phenol red-free complete media formulation originally designed for the *in vitro* expansion of adipose-derived human mesenchymal stem cells (ADMSCs) while maintaining full multipotency. Since its design, this media formulation has been shown to be suitable for the sustained growth of adipose tissue-derived, bone marrow-derived, umbilical cord-derived, placental-derived, and urine-derived hMSCs in both adherent and suspension culture. For optimal results, culturing should be conducted on a surface coated with PeproTech's Animal-Free Human Vitronectin Matrix as a surface-coating reagent; however, other suitable extracellular matrix (ECM) proteins, such as fibronectin or vitronectin, can be used. PeproGrow™ hMSC Medium was designed and developed in collaboration with American CryoStem Corporation, and is supplied as a 500mL bottle of PeproGrow™ hMSC Basal Medium containing a human serum component, and a separate, lyophilized vial of animal-free PeproGrow™ hMSC Growth Factor Supplement. The addition of the separate, lyophilized growth factor supplement to the basal medium results in a complete medium containing all growth factors and supplements necessary for optimal expansion of human mesenchymal stem cells in culture. Additional companion products are available separately and include the Animal-Free Human Vitronectin Matrix and Buffer Kit (catalog number AF-VMB-220).



KIT/COMPONENTS	CATALOG NUMBER	PRICE
PeproGrow™ hMSC Medium 500mL Kit	XF-HMSC-500	\$275
PeproGrow™ hMSC Basal Medium	BM-XF-HMSC-500	N/A
PeproGrow™ hMSC Growth Factor Supplement	GF-XF-HMSC-500	N/A

Companion Products for PeproGrow™ hMSC Medium

KIT/COMPONENTS	CATALOG NUMBER	PRICE
Animal-Free Human Vitronectin Matrix and Buffer Kit	AF-VMB-220	\$60
Animal-Free Human Vitronectin Matrix (500µg).....	.....	N/A
PBS + Kolliphor P 188 (220mL).....	.....	N/A

Cell Culture Media Products

PeproGrow™ hESC Medium

Maintenance Medium for hESCs and hiPSCs

PeproTech's PeproGrow™ hESC Media products are comprised of complete, chemically-defined formulations designed for the feeder-free expansion and maintenance of both human embryonic stem cells (hESCs) and human induced pluripotent stem cells (iPSCs). Intended for the culturing of hESCs and iPSCs in the undifferentiated, pluripotent state (Nanog+/Lin28+/Tra-1-60+/SSEA1-/SSEA4+/Oct4+), these media formulations demonstrate less than 15% spontaneous differentiation as indicated by immunofluorescent staining and flow cytometry. These proprietary formulations were designed and developed by PeproTech in collaboration with the Stem Cell Training Course at Rutgers University. Each PeproGrow™ hESC Medium Kit includes a bottle of basal medium and a separate, lyophilized component of PeproTech's recombinant growth factors. Additional companion products are available separately and include the Animal-Free Human Vitronectin Matrix and Buffer Kit (catalog number AF-VMB-220), and the Cell Passaging/Non-Enzymatic Detachment Buffer (catalog number CPD-125). PeproTech's Animal-Free Human Vitronectin Matrix and Buffer Kit can be used following either a surface-coating or premix method (optimization may be required).



PeproGrow™ hESC Medium Kit is an insulin-free formulation, in which insulin is replaced by a unique activator of similar pathways to eliminate possible interference during the measurement of insulin production in subsequently differentiated cells.

KIT/COMPONENTS	CATALOG NUMBER	PRICE
PeproGrow™ hESC Medium 500mL Kit	HESC-500	\$200
PeproGrow™ hESC Basal Medium.....	BM-HESC-500	\$150
PeproGrow™ hESC Growth Factor Component	GF-HESC-500	\$65
PeproGrow™ hESC Medium 100mL Kit	HESC-100	\$80
PeproGrow™ hESC Basal Medium.....	BM-HESC-100	\$60
PeproGrow™ hESC Growth Factor Component	GF-HESC-100	\$25

Companion Products for PeproGrow™ hESC Medium

KIT/COMPONENTS	CATALOG NUMBER	PRICE
Animal-Free Human Vitronectin Matrix and Buffer Kit	AF-VMB-220	\$60
Animal-Free Human Vitronectin Matrix (500µg).....	.....	N/A
PBS + Kolliphor P 188 (220mL).....	.....	N/A
Cell Passaging/Non-Enzymatic Detachment Buffer	CPD-125	\$35
PBS+HEPES+EDTA (125mL).....	.....	N/A

Cell Culture Media Products

PeproGrow™ EPC, MacroV and MicroV Media

Maintenance Media for Endothelial Cells

PeproTech offers three separate endothelial cell culture media formulations developed for the *in vitro* cultivation of: endothelial progenitor cells (EPCs) derived from bone marrow or peripheral blood (PeproGrow™ EPC Medium); endothelial cells from large vessels (PeproGrow™ MacroV Medium); and endothelial cells from small vessels (PeproGrow™ MicroV Medium). These media formulations maintain outstanding endothelial cell morphology and function, and increase the activity of endothelial nitric oxide synthase (eNOS), which account for a specific, crucial marker for endothelial cells. By doing this, the media provide an optimal cell culture environment for macrovascular and microvascular endothelial cells, as well as for EPCs; growing cells at rates that exceed commercially available media.

PeproTech's endothelial cell culture media kits are supplied as a 500mL bottle of basal medium and a separate growth supplement bottle that contains various essential growth factors and components for endothelial cell growth. Adding the growth supplement to the basal medium results in the complete culture medium. PeproTech's endothelial media do not contain antibiotics, antimycotics, antifungals, or phenol red, as these components can cause cell stress and masking effects that may reduce complete medium shelf life and influence experimental results.

KIT/COMPONENTS	CATALOG NUMBER	PRICE
PeproGrow™ EPC Medium Kit	700-EPC	\$300
PeproGrow™ Endothelial Cell Basal Medium	ENDO-BM	N/A
PeproGrow™ EPC Growth Supplement	GS-EPC*	N/A
PeproGrow™ MacroV Medium Kit	700-MacroV	\$150
PeproGrow™ Endothelial Cell Basal Medium	ENDO-BM	N/A
PeproGrow™ MacroV Growth Supplement	GS-MacroV*	N/A
PeproGrow™ MicroV Medium Kit	700-MicroV	\$150
PeproGrow™ Endothelial Cell Basal Medium	ENDO-BM	N/A
PeproGrow™ MicroV Growth Supplement	GS-MicroV*	N/A

*Contains FBS



Cell Culture Media Products

CELL CULTURE MEDIA

PeproGrow™ AF-CHO Medium

Maintenance Medium for CHO-S Cell Lines

PeproTech offers PeproGrow™ AF-CHO Medium, for the *in vitro* cultivation of Chinese Hamster Ovary-S cells (Thermo Fisher Scientific catalog numbers 11619-012, R800-07, or A11557-01). This medium is intended for recombinant protein expression in suspension culture. PeproGrow™ AF-CHO Medium is an animal component-free, serum-free, protein-free, complete medium formulation. This ready-to-use medium contains L-alanyl-L-Glutamine, amino acids, vitamins, salts and non-animal-derived hydrolysates, which are recommended for a 5-day batch culture with a seeding density of 0.5 x10⁶ cells/mL. An adaptation process is not required for Thermo Fisher Scientific CHO-S cells.



MEDIUM	CATALOG NUMBER	VOLUME	PRICE
PeproGrow™ AF-CHO Medium	AF-CHO	1Liter (L)	\$80

PeproGrow™ HEK293 Medium

Maintenance Medium for Human HEK293 Cells

PeproGrow™ HEK293 Medium is an animal component-free, protein-free, serum-free, chemically-defined, complete medium formulation for the *in vitro* cultivation of HEK293 cells (Thermo Fisher Scientific FreeStyle™ 293-F cells, catalog number R790-07). This medium is intended for recombinant protein expression in suspension culture, which is recommended for a 5-day batch culture with a seeding density of 0.6 x10⁶ cells/mL. This ready-to-use medium contains L-alanyl-L-Glutamine, amino acids, vitamins, and salts. An adaptation process is not required for Thermo Fisher Scientific FreeStyle™ 293-F cells.



MEDIUM	CATALOG NUMBER	VOLUME	PRICE
PeproGrow™ HEK293 Medium	AF-CD-HEK293	1Liter (L)	\$80

Cell Culture Supplement Kit

PeproGrow-1 Serum-Free Cell Culture Media Supplement Kit

Serum-free cell culture supplement kit for adherent HEK293, HeLa, and A549 cells

PeproGrow-1 is a serum-free cell culture media supplement formulation designed to sustain the growth of adherent mammalian cell lines, and has been tested with HEK293, HeLa, and A549 cells. This kit may potentially improve the culturing conditions of other adherent cells, however suitability for cells other than those pre-tested is not guaranteed. PeproGrow-1 is an animal component-free, protein-free, chemically-defined formulation. This kit is intended to be used with DMEM/F12 basal media (Thermo Fisher Scientific catalog number 10565, or catalog number 31331 for customers located outside the USA) and contains enough material to supplement 10L of media.

Note: DMEM/F12 media can contain phenol red, or phenol red can be added at the customer's discretion. DMEM/F12 media should not contain HEPES. Another vendor's DMEM/F12 can be purchased, however, PeproTech only tests PeproGrow-1 (Catalog # 700-C100) using Thermo Fisher Scientific DMEM/F12.

- **100x Serum Replacement Solution (catalog number SR-100)** contains non-animal-derived, chemically-defined salts, designed to replace serum in HEK293, HeLa, and A549 cell culture media.
- **200x Lipid Mixture Solution (catalog number LM-200)** contains non-animal-derived fatty acids and lipids, designed to improve cell growth in serum-free media.

MEDIUM/COMPONENT	CATALOG NUMBER	PRICE
PeproGrow-1 Kit	700-C100	\$195
Serum Replacement Solution	SR-100	\$135
Lipid Mixture Solution	LM-200	\$75



Cytokine Packages

Dendritic Cell Cytokine Packages

Human Dendritic Cell Cytokine Package

Catalog Number: HDC Price: \$900

The following 2 vials are included:

- 100 µg Human IL-4
- 100 µg Human GM-CSF

Animal-Free Human Dendritic Cell Cytokine Package

Catalog Number: AF-HDC Price: \$1,000

The following 2 vials are included:

- 100 µg Animal-Free Human IL-4
- 100 µg Animal-Free Human GM-CSF

Murine Dendritic Cell Cytokine Package

Catalog Number: MDC Price: \$900

The following 2 vials are included:

- 100 µg Murine IL-4
- 100 µg Murine GM-CSF

Animal-Free Murine Dendritic Cell Cytokine Package

Catalog Number: AF-MDC Price: \$1,000

The following 2 vials are included:

- 100 µg Animal-Free Murine IL-4
- 100 µg Animal-Free Murine GM-CSF

Hematopoietic Stem Cell Expansion Cytokine Packages

Human Hematopoietic Stem Cell Expansion Cytokine Package

Catalog Number: HHSC3 Price: \$1,950

The following 4 vials are included:

- 100 µg Human Flt3-Ligand
- 100 µg Human SCF
- 100 µg Human TPO
- 10 µg Human IL-3

Animal-Free Human Hematopoietic Stem Cell Expansion Cytokine Package

Catalog Number: AF-HHSC3 Price: \$2,340

The following 4 vials are included:

- 100 µg Animal-Free Human Flt3-Ligand
- 100 µg Animal-Free Human SCF
- 100 µg Animal-Free Human TPO
- 10 µg Animal-Free Human IL-3

Human Hematopoietic Stem Cell Expansion Cytokine Package

Catalog Number: HHSC6 Price: \$1,950

The following 4 vials are included:

- 100 µg Human Flt3-Ligand
- 100 µg Human SCF
- 100 µg Human TPO
- 20 µg Human IL-6

Animal-Free Human Hematopoietic Stem Cell Expansion Cytokine Package

Catalog Number: AF-HHSC6 Price: \$2,340

The following 4 vials are included:

- 100 µg Animal-Free Human Flt3-Ligand
- 100 µg Animal-Free Human SCF
- 100 µg Animal-Free Human TPO
- 20 µg Animal-Free Human IL-6

Murine Hematopoietic Stem Cell Expansion Cytokine Package

Catalog Number: MHSC3 Price: \$1,950

The following 4 vials are included:

- 100 µg Murine Flt3-Ligand
- 100 µg Murine SCF
- 100 µg Murine TPO
- 10 µg Murine IL-3

Murine Hematopoietic Stem Cell Expansion Cytokine Package

Contains the key components required for *ex vivo* mouse hematopoietic stem cells.

Catalog Number: MHSC6 Price: \$1,950

The following 4 vials are included:

- 100 µg Murine Flt3-Ligand
- 100 µg Murine SCF
- 100 µg Murine TPO
- 10 µg Murine IL-6

Animal-Free Cytokines

PeproTech's line of Animal-Free Cytokines is designed to minimize potential variables associated with the use of animal-derived manufacturing components. Production protocols have been modified to include only animal-free reagents and chemicals, while maintaining identical high biological activity and purity to the corresponding proteins produced using standard techniques.

PeproTech's *E.coli*-derived Animal-Free Cytokines are manufactured under strict Animal-Free manufacturing conditions in a dedicated Animal-Free facility located in Westlake Village, California.

Glycosylated and fully biologically active, PeproTech's cell culture-derived Animal-Free Cytokines are manufactured in our new Cranbury NJ facility, using animal-free raw materials and expression systems consisting of serum-free, animal-free, chemically-defined media.

PRODUCT DESCRIPTION	CATALOG NUMBER	SIZE A	SIZE B	PRICE PER MG
Human/Murine/Rat Activin A.....	AF-120-14E	2 µg / \$95	10 µg / \$215.....	1 mg / \$4,300
Human Apo-SAA1	AF-300-53	10 µg / \$95	50 µg / \$215.....	1 mg / \$1,650
Human Artemin.....	AF-450-17	5 µg / \$95	20 µg / \$215.....	1 mg / \$3,300
Human 4-1BB Ligand	AF-310-11	5 µg / \$95	20 µg / \$215.....	1 mg / \$3,300
Human BAFF.....	AF-310-13	5 µg / \$95	20 µg / \$215.....	1 mg / \$5,700
Murine BD-3	AF-250-41	5 µg / \$95	20 µg / \$215.....	1 mg / \$3,300
Human BD-5	AF-300-68	5 µg / \$95	20 µg / \$215.....	1 mg / \$3,300
Human/Murine/Rat BDNF.....	AF-450-02	2 µg / \$95	10 µg / \$215.....	1 mg / \$5,700
Human/Murine/Rat BMP-2.....	AF-120-02	2 µg / \$95	10 µg / \$215.....	1 mg / \$4,300
Human BMP-4	AF-120-05ET	2 µg / \$95	10 µg / \$215.....	1 mg / \$4,300
Human BMP-13/CDMP-2	AF-120-04	10 µg / \$95	50 µg / \$215.....	1 mg / \$1,650
Human C5a	AF-300-70	5 µg / \$95	20 µg / \$215.....	1 mg / \$3,300
Human sCD40 Ligand	AF-310-02	10 µg / \$95	50 µg / \$215.....	1 mg / \$1,650
Human CNTF.....	AF-450-13	5 µg / \$95	20 µg / \$215.....	1 mg / \$3,300
Rat CNTF	AF-450-50	5 µg / \$95	25 µg / \$215.....	1 mg / \$3,300
Human EGF	AF-100-15	100 µg / \$80	500 µg / \$195.....	1 mg / \$250
Murine EGF	AF-315-09	100 µg / \$95	500 µg / \$215.....	1 mg / \$275
Rat EGF	AF-400-25	20 µg / \$95	100 µg / \$215.....	1 mg / \$1,200
Human Enterokinase.....	AF-450-48C.....	10 µg / \$95	50 µg / \$215.....	1 mg / \$1,650
Human Eotaxin (CCL11)	AF-300-21	5 µg / \$95	20 µg / \$215.....	1 mg / \$3,300
Human Epregin.....	AF-100-04.....	5 µg / \$95	25 µg / \$215.....	1 mg / \$3,300
Human FGF-acidic	AF-100-17A.....	10 µg / \$95	50 µg / \$215.....	1 mg / \$1,650
Bovine FGF-basic	AF-450-62	10 µg / \$95	50 µg / \$215.....	1 mg / \$850
Human FGF-basic (154 a.a.).....	AF-100-18B.....	10 µg / \$95	50 µg / \$215.....	1 mg / \$850
Human FGF-basic (146 a.a.).....	AF-100-18C.....	10 µg / \$95	50 µg / \$215.....	1 mg / \$1,300
Murine FGF-basic.....	AF-450-33	10 µg / \$95	50 µg / \$215.....	1 mg / \$1,650
Human FGF-4	AF-100-31	5 µg / \$95	25 µg / \$215.....	1 mg / \$3,300
Human FGF-6	AF-100-30	5 µg / \$95	25 µg / \$215.....	1 mg / \$3,300
Human/Murine FGF-8b.....	AF-100-25	5 µg / \$95	25 µg / \$215.....	1 mg / \$3,300
Human FGF-9	AF-100-23	5 µg / \$95	20 µg / \$215.....	1 mg / \$4,300
Human FGF-10.....	AF-100-26	5 µg / \$95	25 µg / \$215.....	1 mg / \$3,300
Human FGF-18	AF-100-28	5 µg / \$95	25 µg / \$215.....	1 mg / \$3,300
Human FGF-19.....	AF-100-32	5 µg / \$95	25 µg / \$215.....	1 mg / \$3,300
Human FGF-21	AF-100-42	5 µg / \$95	25 µg / \$215.....	1 mg / \$3,300
Human Flt3-Ligand	AF-300-19	2 µg / \$95	10 µg / \$215.....	1 mg / \$4,300
Human G-CSF.....	AF-300-23	2 µg / \$95	10 µg / \$215.....	1 mg / \$4,300
Murine G-CSF.....	AF-250-05	2 µg / \$95	10 µg / \$215.....	1 mg / \$4,300
Human GDF-3.....	AF-120-22	5 µg / \$95	20 µg / \$215.....	1 mg / \$4,300

Animal-Free Cytokines

PRODUCT DESCRIPTION	CATALOG NUMBER	SIZE A	SIZE B	PRICE PER MG
Human GDF-5 (BMP-14/CDMP-1)	AF-120-01	10 µg / \$95	50 µg / \$215	1 mg / \$1,650
Human GDNF	AF-450-10	2 µg / \$95	10 µg / \$215	1 mg / \$5,700
Murine GDNF	AF-450-44	2 µg / \$95	10 µg / \$215	1 mg / \$5,700
Rat GDNF	AF-450-51	2 µg / \$95	10 µg / \$215	1 mg / \$5,700
Human GM-CSF	AF-300-03	5 µg / \$95	20 µg / \$215	1 mg / \$3,500
Murine GM-CSF	AF-315-03	5 µg / \$95	20 µg / \$215	1 mg / \$3,500
Rat GM-CSF	AF-400-23	5 µg / \$95	20 µg / \$215	1 mg / \$3,500
Human GRO-α/MGSA (CXCL1)	AF-300-11	5 µg / \$95	25 µg / \$215	1 mg / \$3,300
Human Growth Hormone	AF-100-40	10 µg / \$95	50 µg / \$215	1 mg / \$850
Human Heregulinβ-1	AF-100-03	10 µg / \$95	50 µg / \$215	1 mg / \$1,650
Human IFN-β	AF-300-02B	5 µg / \$95	20 µg / \$215	1 mg / \$3,300
Human IFN-γ	AF-300-02	20 µg / \$95	100 µg / \$215	1 mg / \$1,200
Murine IFN-γ	AF-315-05	20 µg / \$95	100 µg / \$215	1 mg / \$1,200
Human IFN-λ1	AF-300-02L	5 µg / \$95	20 µg / \$215	1 mg / \$3,300
Human IGF-I	AF-100-11	100 µg / \$95	500 µg / \$215	1 mg / \$275
Human IGF-I LR3	AF-100-11R3	200 µg / \$95	1 mg / \$215	1 mg / \$215
Human IGF-II	AF-100-12	10 µg / \$95	50 µg / \$215	1 mg / \$1,650
Human IGF-BP3	AF-100-08	5 µg / \$95	25 µg / \$215	1 mg / \$3,300
Human IGF-BP7	AF-350-09	5 µg / \$95	25 µg / \$215	1 mg / \$3,300
Human IL-1α	AF-200-01A	2 µg / \$95	10 µg / \$215	1 mg / \$4,300
Human IL-1β	AF-200-01B	2 µg / \$95	10 µg / \$215	1 mg / \$4,300
Murine IL-1β	AF-211-11B	2 µg / \$95	10 µg / \$215	1 mg / \$4,300
Human IL-1RA	AF-200-01RA	20 µg / \$95	100 µg / \$215	1 mg / \$1,200
Human IL-2	AF-200-02	10 µg / \$95	50 µg / \$215	1 mg / \$850
Murine IL-2	AF-212-12	5 µg / \$95	20 µg / \$215	1 mg / \$3,100
Rat IL-2	AF-400-02	5 µg / \$95	20 µg / \$215	1 mg / \$3,100
Human IL-3	AF-200-03	2 µg / \$95	10 µg / \$215	1 mg / \$3,300
Murine IL-3	AF-213-13	2 µg / \$95	10 µg / \$215	1 mg / \$3,300
Human IL-4	AF-200-04	5 µg / \$95	20 µg / \$215	1 mg / \$3,500
Murine IL-4	AF-214-14	5 µg / \$95	20 µg / \$215	1 mg / \$3,500
Human IL-5	AF-200-05	2 µg / \$95	10 µg / \$215	1 mg / \$4,700
Human IL-6	AF-200-06	5 µg / \$95	20 µg / \$215	1 mg / \$3,300
Murine IL-6	AF-216-16	2 µg / \$95	10 µg / \$215	1 mg / \$3,300
Human IL-7	AF-200-07	2 µg / \$95	10 µg / \$215	1 mg / \$5,700
Human IL-8 (CXCL8) (72 a.a.)	AF-200-08M	5 µg / \$95	25 µg / \$215	1 mg / \$3,300
Human IL-9	AF-200-09	2 µg / \$95	10 µg / \$215	1 mg / \$5,700
Human IL-10	AF-200-10	2 µg / \$95	10 µg / \$215	1 mg / \$5,700
Murine IL-10	AF-210-10	2 µg / \$95	10 µg / \$215	1 mg / \$5,700
Human IL-11	AF-200-11	2 µg / \$95	10 µg / \$215	1 mg / \$5,700
Human IL-13	AF-200-13	2 µg / \$95	10 µg / \$215	1 mg / \$5,700
Human IL-15	AF-200-15	2 µg / \$95	10 µg / \$215	1 mg / \$4,300
Human IL-16 (121 a.a.)	AF-200-16A	2 µg / \$95	10 µg / \$215	1 mg / \$5,700
Human IL-17A	AF-200-17	5 µg / \$95	25 µg / \$215	1 mg / \$3,300
Human IL-17D	AF-200-27	5 µg / \$95	25 µg / \$215	1 mg / \$3,300
Human IL-17E	AF-200-24	5 µg / \$95	25 µg / \$215	1 mg / \$3,300
Human IL-17F	AF-200-25	5 µg / \$95	25 µg / \$215	1 mg / \$3,300
Human IL-21	AF-200-21	2 µg / \$95	10 µg / \$215	1 mg / \$5,700
Murine IL-21	AF-210-21	2 µg / \$95	10 µg / \$215	1 mg / \$5,700
Human IL-22	AF-200-22	2 µg / \$95	10 µg / \$215	1 mg / \$5,700

Animal-Free Cytokines

PRODUCT DESCRIPTION	CATALOG NUMBER	SIZE A	SIZE B	PRICE PER MG
Murine IL-22	AF-210-22	2 µg / \$95	10 µg / \$215	1 mg / \$5,700
Human IL-33	AF-200-33	2 µg / \$95	10 µg / \$215	1 mg / \$5,700
Human IL-36γ (IL-1F9)	AF-200-36G	2 µg / \$95	10 µg / \$215	1 mg / \$5,700
Human IL-37 (IL-1F7)	AF-200-39	5 µg / \$95	25 µg / \$215	1 mg / \$3,300
Human I-TAC (CXCL11)	AF-300-46	5 µg / \$95	20 µg / \$215	1 mg / \$3,300
Human KGF (FGF-7)	AF-100-19	2 µg / \$95	10 µg / \$215	1 mg / \$5,700
Human Leptin	AF-300-27	200 µg / \$95	1 mg / \$215	5 mg / \$550
Murine Leptin	AF-450-31	200 µg / \$95	1 mg / \$215	5 mg / \$550
Human LIF	AF-300-05	5 µg / \$95	25 µg / \$215	1 mg / \$3,100
Murine LIF	AF-250-02	5 µg / \$95	25 µg / \$215	1 mg / \$3,100
Murine LIGHT	AF-315-12	5 µg / \$95	20 µg / \$215	1 mg / \$3,300
Human MCP-1 (CCL2)	AF-300-04	5 µg / \$95	20 µg / \$215	1 mg / \$3,300
Human MCP-2 (CCL8)	AF-300-15	2 µg / \$95	10 µg / \$215	1 mg / \$3,300
Human M-CSF	AF-300-25	2 µg / \$95	10 µg / \$215	1 mg / \$4,700
Murine M-CSF	AF-315-02	2 µg / \$95	10 µg / \$215	1 mg / \$4,700
Rat M-CSF	AF-400-28	2 µg / \$95	10 µg / \$215	1 mg / \$5,700
Human MIP-1α (CCL3)	AF-300-08	5 µg / \$95	20 µg / \$215	1 mg / \$3,300
Human β-NGF	AF-450-01	20 µg / \$95	100 µg / \$215	1 mg / \$1,200
Murine Noggin	AF-250-38	5 µg / \$95	20 µg / \$215	1 mg / \$4,300
Human NT-3	AF-450-03	2 µg / \$95	10 µg / \$215	1 mg / \$5,700
Human NT-4	AF-450-04	2 µg / \$95	10 µg / \$215	1 mg / \$5,700
Human Oncostatin M (209 a.a.)	AF-300-10T	2 µg / \$95	10 µg / \$215	1 mg / \$5,700
Human PDGF-AA	AF-100-13A	2 µg / \$95	10 µg / \$215	1 mg / \$4,300
Human PDGF-BB	AF-100-14B	2 µg / \$95	10 µg / \$215	1 mg / \$4,300
Human PlGF-1	AF-100-06	5 µg / \$95	25 µg / \$215	1 mg / \$3,300
Human sRANK Ligand	AF-310-01	2 µg / \$95	10 µg / \$215	1 mg / \$5,700
Human RANTES (CCL5)	AF-300-06	5 µg / \$95	20 µg / \$215	1 mg / \$3,300
Human SCF	AF-300-07	2 µg / \$95	10 µg / \$215	1 mg / \$2,600
Murine SCF	AF-250-03	2 µg / \$95	10 µg / \$215	1 mg / \$2,600
Rat SCF	AF-400-22	2 µg / \$95	10 µg / \$215	1 mg / \$3,300
Human SDF-1α (CXCL12)	AF-300-28A	2 µg / \$95	10 µg / \$215	1 mg / \$3,300
Human SDF-1β (CXCL12)	AF-300-28B	2 µg / \$95	10 µg / \$215	1 mg / \$3,300
Human TECK (CCL25)	AF-300-45	5 µg / \$95	20 µg / \$215	1 mg / \$3,300
Human TGF-α	AF-100-16A	20 µg / \$95	100 µg / \$215	1 mg / \$1,200
Human TGF-β1	AF-100-21C	2 µg / \$95	10 µg / \$215	1 mg / \$5,700
Human TGF-β3	AF-100-36E	2 µg / \$95	10 µg / \$215	1 mg / \$5,700
Human TL-1A	AF-310-23	5 µg / \$95	20 µg / \$215	1 mg / \$3,300
Human TNF-α	AF-300-01A	10 µg / \$95	50 µg / \$215	1 mg / \$1,650
Murine TNF-α	AF-315-01A	5 µg / \$95	20 µg / \$215	1 mg / \$3,300
Human sTNF Receptor Type I	AF-310-07	5 µg / \$95	20 µg / \$215	1 mg / \$3,300
Human TPO	AF-300-18	2 µg / \$95	10 µg / \$215	1 mg / \$4,700
Murine TPO	AF-315-14	2 µg / \$95	10 µg / \$215	1 mg / \$4,700
Rat TPO	AF-400-34	2 µg / \$95	10 µg / \$215	1 mg / \$4,700
Human TWEAK	AF-310-06	5 µg / \$95	25 µg / \$215	1 mg / \$3,300
Human VEGF ₁₂₁	AF-100-20A	2 µg / \$95	10 µg / \$215	1 mg / \$4,300
Human VEGF ₁₆₅	AF-100-20	2 µg / \$95	10 µg / \$215	1 mg / \$4,300
Murine VEGF ₁₆₅	AF-450-32	2 µg / \$95	10 µg / \$215	1 mg / \$4,300
Human Vitronectin	AF-140-09	100 µg / \$95	500 µg / \$215	1 mg / \$275

RUO Cytokines

Full length and fully biologically active RUO cytokines are developed in-house by our experienced protein scientists. The process starts in our molecular biology labs with gene design and expression, to cell banking, and continues to fermentation/cell culture, purification, QC testing and finally QA release.

PRODUCT DESCRIPTION	CATALOG NUMBER	SIZE A	SIZE B	PRICE PER MG	SOURCE
Human/Murine/Rat Activin A.....	120-14.....	2 µg / \$80	10 µg / \$195.....	1 mg / \$6,500	Insect cells
Human/Murine/Rat Activin A.....	120-14E	2 µg / \$80	10 µg / \$195.....	1 mg / \$3,900	<i>E.coli</i>
Human/Murine/Rat Activin A.....	120-14P	2 µg / \$80	10 µg / \$195.....	1 mg / \$5,200	CHO cells
Human Adiponectin.....	450-24.....	5 µg / \$80	25 µg / \$195.....	1 mg / \$5,200	Insect cells
Murine Adiponectin.....	315-26.....	5 µg / \$80	25 µg / \$195.....	1 mg / \$5,200	Insect cells
Aeromonas Aminopeptidase	100-10.....	100 µg / \$80	500 µg / \$195.....	1 mg / \$250	<i>E.coli</i>
Human AITRL	310-22.....	5 µg / \$80	20 µg / \$195.....	1 mg / \$5,200	<i>E.coli</i>
Human Amphiregulin	100-55B	10 µg / \$80	50 µg / \$195.....	1 mg / \$1,500	<i>E.coli</i>
Murine Amphiregulin	315-36.....	10 µg / \$80	50 µg / \$195.....	1 mg / \$1,500	<i>E.coli</i>
Human ANG-1.....	130-06.....	5 µg / \$80	20 µg / \$195.....	1 mg / \$5,200	HeLa cells
Human ANG-2.....	130-07.....	5 µg / \$80	20 µg / \$195.....	1 mg / \$5,200	CHO cells
Human ANGPTL-3	130-18.....	10 µg / \$80	50 µg / \$195.....	1 mg / \$1,500	CHO cells
Human ANGPTL-7	130-22.....	5 µg / \$80	20 µg / \$195.....	1 mg / \$5,200	Insect cells
Human ApoA-I.....	350-11.....	20 µg / \$80	100 µg / \$195.....	1 mg / \$1,100	<i>E.coli</i>
Human ApoE2	350-12.....	100 µg / \$80	500 µg / \$195.....	1 mg / \$350.....	<i>E.coli</i>
Human ApoE3	350-02.....	100 µg / \$80	500 µg / \$195.....	1 mg / \$350.....	<i>E.coli</i>
Human ApoE4	350-04.....	100 µg / \$80	500 µg / \$195.....	1 mg / \$350.....	<i>E.coli</i>
Human Apo-SAA	300-13.....	10 µg / \$80	50 µg / \$195.....	1 mg / \$800.....	<i>E.coli</i>
Human Apo-SAA1	300-53.....	10 µg / \$80	50 µg / \$195.....	1 mg / \$1,400	<i>E.coli</i>
Human APRIL.....	310-10C	2 µg / \$80	10 µg / \$195.....	1 mg / \$5,200	Insect cells
Murine APRIL.....	315-13.....	5 µg / \$80	20 µg / \$195.....	1 mg / \$3,000	<i>E.coli</i>
Lysobacter Enzymogenes Arg-C.....	450-54.....	5 µg / \$80	20 µg / \$195.....	1 mg / \$3,000	Insect cells
Mycoplasma Arginine Deiminase.....	150-12.....	5 µg / \$80	20 µg / \$195.....	1 mg / \$3,000	<i>E.coli</i>
Human Artemin.....	450-17.....	5 µg / \$80	20 µg / \$195.....	1 mg / \$3,000	<i>E.coli</i>
Murine Artemin.....	450-58.....	5 µg / \$80	20 µg / \$195.....	1 mg / \$3,000	<i>E.coli</i>
Human 4-1BB Ligand	310-11.....	5 µg / \$80	20 µg / \$195.....	1 mg / \$3,000	<i>E.coli</i>
Human 4-1BB Receptor.....	310-15.....	5 µg / \$80	20 µg / \$195.....	1 mg / \$3,000	<i>E.coli</i>
Human B7-1 Fc.....	310-32.....	20 µg / \$80	100 µg / \$195.....	1 mg / \$1,100	CHO cells
Human B7-2 Fc.....	310-33.....	20 µg / \$80	100 µg / \$195.....	1 mg / \$1,100	CHO cells
Human B7-H2 Fc.....	310-37.....	20 µg / \$80	100 µg / \$195.....	1 mg / \$1,100	CHO cells
Human BAFF.....	310-13.....	5 µg / \$80	20 µg / \$195.....	1 mg / \$5,200	<i>E.coli</i>
Human BAFF Receptor	310-13R	10 µg / \$80	50 µg / \$195.....	1 mg / \$1,500	<i>E.coli</i>
Human BCA-1 (CXCL13).....	300-47.....	5 µg / \$80	20 µg / \$195.....	1 mg / \$3,000	<i>E.coli</i>
Murine BCA-1/BLC (CXCL13)	250-24.....	5 µg / \$80	20 µg / \$195.....	1 mg / \$3,000	<i>E.coli</i>
Human BCMA	310-16.....	5 µg / \$80	20 µg / \$195.....	1 mg / \$5,200	<i>E.coli</i>
Human BD-1 (36 a.a.)	300-51.....	5 µg / \$80	20 µg / \$195.....	1 mg / \$3,000	<i>E.coli</i>
Human BD-1 (47 a.a.)	300-51A.....	5 µg / \$80	20 µg / \$195.....	1 mg / \$3,000	<i>E.coli</i>
Human BD-2	300-49.....	5 µg / \$80	20 µg / \$195.....	1 mg / \$3,000	<i>E.coli</i>
Murine BD-2	250-40.....	5 µg / \$80	20 µg / \$195.....	1 mg / \$3,000	<i>E.coli</i>
Human BD-3	300-52.....	5 µg / \$80	20 µg / \$195.....	1 mg / \$3,000	<i>E.coli</i>
Murine BD-3	250-41.....	5 µg / \$80	20 µg / \$195.....	1 mg / \$3,000	<i>E.coli</i>
Human BD-4	300-65.....	5 µg / \$80	20 µg / \$195.....	1 mg / \$3,000	<i>E.coli</i>
Human BD-5	300-68.....	5 µg / \$80	20 µg / \$195.....	1 mg / \$3,000	<i>E.coli</i>
Human/Murine/Rat BDNF.....	450-02.....	2 µg / \$80	10 µg / \$195.....	1 mg / \$5,200	<i>E.coli</i>

RUO Cytokines

PRODUCT DESCRIPTION	CATALOG NUMBER	SIZE A	SIZE B	PRICE PER MG	SOURCE
Human Betacellulin	100-50	5 µg / \$80	20 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Murine Betacellulin	315-21	5 µg / \$80	20 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human/Murine/Rat BMP-2	120-02	2 µg / \$80	10 µg / \$195	1 mg / \$3,900	<i>E.coli</i>
Human/Murine/Rat BMP-2	120-02C	2 µg / \$80	10 µg / \$195	1 mg / \$5,200	CHO cells
Human BMP-3	120-24B	10 µg / \$80	50 µg / \$195	1 mg / \$1,500	<i>E.coli</i>
Human BMP-4	120-05	1 µg / \$80	5 µg / \$195	1 mg / \$7,000	HeLa cells
Human BMP-4	120-05ET	2 µg / \$80	10 µg / \$195	1 mg / \$3,900	<i>E.coli</i>
Murine BMP-4	315-27	2 µg / \$80	10 µg / \$195	1 mg / \$3,900	<i>E.coli</i>
Human BMP-5	120-39	2 µg / \$80	10 µg / \$195	1 mg / \$3,900	CHO cells
Human BMP-6	120-06	2 µg / \$80	10 µg / \$195	1 mg / \$5,200	HEK293 cells
Human BMP-7	120-03P	2 µg / \$80	10 µg / \$195	1 mg / \$5,200	CHO cells
Human BMP-10	120-40	2 µg / \$80	10 µg / \$195	1 mg / \$3,900	HEK293 cells
Human BMP-13/CDMP-2	120-04	10 µg / \$80	50 µg / \$195	1 mg / \$1,500	<i>E.coli</i>
Human BRAK (CXCL14)	300-50	5 µg / \$80	20 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Murine BRAK (CXCL14)	250-45	5 µg / \$80	20 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human BTLA Fc	310-43	10 µg / \$80	50 µg / \$195	1 mg / \$1,500	CHO cells
Human C1 Inhibitor	130-20	50 µg / \$80	200 µg / \$195	1 mg / \$800	CHO cells
Murine C10 (CCL6)	250-06	2 µg / \$80	10 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human C5a	300-70	5 µg / \$80	20 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Murine C5a	315-40	5 µg / \$80	20 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Rat Carboxypeptidase-B	400-00	5 µg / \$80	25 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human Cardiotrophin-1	300-32	2 µg / \$80	10 µg / \$195	1 mg / \$5,200	<i>E.coli</i>
Murine Cardiotrophin-1	250-25	2 µg / \$80	10 µg / \$195	1 mg / \$5,200	<i>E.coli</i>
Human sCD4	110-11	10 µg / \$80	50 µg / \$195	1 mg / \$1,800	CHO cells
Human sCD8α	310-41	10 µg / \$80	50 µg / \$195	1 mg / \$1,500	CHO cells
Human sCD14	110-01	10 µg / \$80	50 µg / \$195	1 mg / \$1,500	HEK293 cells
Human sCD22	100-01	5 µg / \$80	20 µg / \$195	1 mg / \$4,800	CHO cells
Human sCD23	310-26	5 µg / \$80	20 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human sCD27 Ligand	310-30	10 µg / \$80	50 µg / \$195	1 mg / \$1,500	CHO cells
Human sCD28 Fc	310-34	20 µg / \$80	100 µg / \$195	1 mg / \$1,100	CHO cells
Human sCD30 Ligand	450-42	10 µg / \$80	50 µg / \$195	1 mg / \$1,500	CHO cells
Human sCD34	310-31	5 µg / \$80	20 µg / \$195	1 mg / \$3,000	CHO cells
Human sCD40 Ligand	310-02	10 µg / \$80	50 µg / \$195	1 mg / \$1,500	<i>E.coli</i>
Murine sCD40 Ligand	315-15	5 µg / \$80	25 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human sCD100	310-29	5 µg / \$80	20 µg / \$195	1 mg / \$5,200	CHO cells
Human CDNF	450-05	5 µg / \$80	25 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human Chemerin	300-66	5 µg / \$80	25 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human CNTF	450-13	5 µg / \$80	20 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Rat CNTF	450-50	5 µg / \$80	25 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human CTACK (CCL27)	300-54	5 µg / \$80	20 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Murine CTACK (CCL27)	250-26	5 µg / \$80	20 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human CTGF	120-19	5 µg / \$80	20 µg / \$195	1 mg / \$3,900	<i>E.coli</i>
Human CTGFL/WISP-2	120-16	5 µg / \$80	20 µg / \$195	1 mg / \$3,900	<i>E.coli</i>
Human CTLA-4 Fc	310-05	50 µg / \$80	200 µg / \$195	1 mg / \$800	CHO cells
Human CXCL16	300-55	5 µg / \$80	25 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Murine CXCL16	250-28	5 µg / \$80	25 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human CYR61	120-25	5 µg / \$80	20 µg / \$195	1 mg / \$3,900	<i>E.coli</i>

RUO Cytokines

PRODUCT DESCRIPTION	CATALOG NUMBER	SIZE A	SIZE B	PRICE PER MG	SOURCE
Human DKK-1	120-30	2 µg / \$80	10 µg / \$195	1 mg / \$5,200	HEK293 cells
Human DKK-2	120-45	2 µg / \$80	10 µg / \$195	1 mg / \$5,200	CHO cells
Human DKK-3	120-46	2 µg / \$80	10 µg / \$195	1 mg / \$5,200	CHO cells
Human sDLL-1	140-08	5 µg / \$80	25 µg / \$195	1 mg / \$3,000	HEK293 cells
Human sDLL-4	140-07	5 µg / \$80	25 µg / \$195	1 mg / \$3,000	HEK293 cells
Human EGF	AF-100-15	100 µg / \$80	500 µg / \$195	1 mg / \$250	<i>E.coli</i>
Murine EGF	315-09	100 µg / \$80	500 µg / \$195	1 mg / \$250	<i>E.coli</i>
Rat EGF	400-25	20 µg / \$80	100 µg / \$195	1 mg / \$1,100	<i>E.coli</i>
Human EGF Receptor (EGFR)	100-15R	2 µg / \$80	10 µg / \$195	1 mg / \$3,900	CHO cells
Human EGF-L7	100-61	2 µg / \$80	10 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human EG-VEGF	100-44	5 µg / \$80	20 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Murine EG-VEGF	315-29	5 µg / \$80	20 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human ENA-78 (CXCL5)(5-78 a.a.)	300-22	5 µg / \$80	20 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human ENA-78 (CXCL5)(8-78 a.a.)	300-22B	5 µg / \$80	20 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human Endostatin	150-01	20 µg / \$80	100 µg / \$195	1 mg / \$1,100	<i>E.coli</i>
Human Enterokinase	450-48C	10 µg / \$80	50 µg / \$195	1 mg / \$1,500	CHO cells
Human Eotaxin (CCL11)	300-21	5 µg / \$80	20 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Murine Eotaxin (CCL11)	250-01	5 µg / \$80	20 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human Eotaxin-2 (CCL24)	300-33	5 µg / \$80	20 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Murine Eotaxin-2 (CCL24)	250-22	5 µg / \$80	20 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human Eotaxin-3 (CCL26)	300-48	5 µg / \$80	20 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human Epigen	100-51	5 µg / \$80	25 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human Epiregulin	100-04	5 µg / \$80	25 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human EPO	100-64	10 µg / \$80	50 µg / \$195	1 mg / \$1,500	CHO cells
Human E-Selectin	150-15	10 µg / \$80	50 µg / \$195	1 mg / \$1,500	CHO cells
Human Exodus-2 (CCL21)	300-35A	5 µg / \$80	20 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Murine Exodus-2 (CCL21)	250-13	5 µg / \$80	20 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human sFas Ligand	310-03H	2 µg / \$80	10 µg / \$195	1 mg / \$4,300	CHO cells
Human sFas Receptor	310-20	5 µg / \$80	20 µg / \$195	1 mg / \$3,900	<i>E.coli</i>
Human Fetuin A/AHSG	140-13	10 µg / \$80	50 µg / \$195	1 mg / \$1,500	HEK293 cells
Human FGF-acidic	100-17A	10 µg / \$80	50 µg / \$195	1 mg / \$1,500	<i>E.coli</i>
Murine FGF-acidic	450-33A	10 µg / \$80	50 µg / \$195	1 mg / \$1,500	<i>E.coli</i>
Rat FGF-acidic	400-29A	10 µg / \$80	50 µg / \$195	1 mg / \$1,500	<i>E.coli</i>
Human FGF-basic (154 a.a.)	100-18B	10 µg / \$80	50 µg / \$195	1 mg / \$800	<i>E.coli</i>
Human FGF-basic (146 a.a.)	100-18C	10 µg / \$80	50 µg / \$195	1 mg / \$1,200	<i>E.coli</i>
Murine FGF-basic	450-33	10 µg / \$80	50 µg / \$195	1 mg / \$1,400	<i>E.coli</i>
Rat FGF-basic	400-29	10 µg / \$80	50 µg / \$195	1 mg / \$1,400	<i>E.coli</i>
Human FGF-4	100-31	5 µg / \$80	25 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Murine FGF-4	450-57	5 µg / \$80	25 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human FGF-5	100-34	10 µg / \$80	50 µg / \$195	1 mg / \$1,500	<i>E.coli</i>
Human FGF-6	100-30	5 µg / \$80	25 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human FGF-8a	100-25A	5 µg / \$80	25 µg / \$195	1 mg / \$3,900	CHO cells
Human/Murine FGF-8b	100-25	5 µg / \$80	25 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human FGF-9	100-23	5 µg / \$80	20 µg / \$195	1 mg / \$3,900	<i>E.coli</i>
Murine FGF-9	450-30	2 µg / \$80	10 µg / \$195	1 mg / \$3,900	<i>E.coli</i>
Human FGF-10	100-26	5 µg / \$80	25 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Murine FGF-10	450-61	5 µg / \$80	25 µg / \$195	1 mg / \$3,000	<i>E.coli</i>

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PRODUCT DESCRIPTION	CATALOG NUMBER	SIZE A	SIZE B	PRICE PER MG	SOURCE
Rat FGF-10	400-42	5 µg / \$80	25 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human FGF-16	100-29	5 µg / \$80	25 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human FGF-17	100-27	5 µg / \$80	25 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human FGF-18	100-28	5 µg / \$80	25 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human FGF-19	100-32	5 µg / \$80	25 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human FGF-20	100-41	3 µg / \$80	15 µg / \$195	1 mg / \$3,900	<i>E.coli</i>
Human FGF-21	100-42	5 µg / \$80	25 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Murine FGF-21	450-56	5 µg / \$80	25 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human FGF-23	100-52	5 µg / \$80	20 µg / \$195	1 mg / \$3,900	<i>E.coli</i>
Murine FGF-23	450-55	5 µg / \$80	20 µg / \$195	1 mg / \$3,900	<i>E.coli</i>
Human FGF-BP-1	100-66	5 µg / \$80	25 µg / \$195	1 mg / \$3,900	<i>E.coli</i>
Human FGFR1a (IIIc) Fc	160-02	10 µg / \$80	50 µg / \$195	1 mg / \$1,500	CHO cells
Human FGFR2a (IIIc) Fc	160-03	10 µg / \$80	50 µg / \$195	1 mg / \$1,500	CHO cells
Human FGFR3 (IIIc) Fc	160-05	10 µg / \$80	50 µg / \$195	1 mg / \$1,500	CHO cells
Human Flt3-Ligand	300-19	2 µg / \$80	10 µg / \$195	1 mg / \$3,900	<i>E.coli</i>
Murine Flt3-Ligand	250-31L	2 µg / \$80	10 µg / \$195	1 mg / \$3,900	<i>E.coli</i>
Rat Flt3-Ligand	400-43	2 µg / \$80	10 µg / \$195	1 mg / \$3,900	<i>E.coli</i>
Human Follistatin	120-13	5 µg / \$80	20 µg / \$195	1 mg / \$5,200	<i>E.coli</i>
Human Fractalkine (CX3CL1)	300-31	5 µg / \$80	20 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Rat Fractalkine (CX3CL1)	400-26	5 µg / \$80	20 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human sFRP-1	120-29	5 µg / \$80	20 µg / \$195	1 mg / \$3,900	HeLa cells
Human sFRP-4	120-50	5 µg / \$80	25 µg / \$195	1 mg / \$3,000	CHO cells
Human sFRP-5	120-53	10 µg / \$80	50 µg / \$195	1 mg / \$1,500	CHO cells
Human FSTL1	120-51	10 µg / \$80	50 µg / \$195	1 mg / \$1,500	CHO cells
Human Furin	450-47	2 µg / \$80	10 µg / \$195	1 mg / \$4,800	Insect cells
Human gAcrp30/Adipolean	450-21	5 µg / \$80	25 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Murine gAcrp30	450-27	5 µg / \$80	25 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human gAcrp30/Adipolean Variant	450-20	5 µg / \$80	25 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human Galectin-1	450-39	10 µg / \$80	50 µg / \$195	1 mg / \$1,500	<i>E.coli</i>
Human Galectin-3	450-38	10 µg / \$80	50 µg / \$195	1 mg / \$1,500	<i>E.coli</i>
Human GASP-1	120-41	5 µg / \$80	25 µg / \$195	1 mg / \$3,900	CHO cells
Human GCP-2 (CXCL6)	300-41	5 µg / \$80	20 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human G-CSF	300-23	2 µg / \$80	10 µg / \$195	1 mg / \$3,900	<i>E.coli</i>
Murine G-CSF	250-05	2 µg / \$80	10 µg / \$195	1 mg / \$3,900	<i>E.coli</i>
Rat G-CSF	400-37	2 µg / \$80	10 µg / \$195	1 mg / \$5,200	<i>E.coli</i>
Human GDF-2	120-07	2 µg / \$80	10 µg / \$195	1 mg / \$5,200	CHO cells
Human GDF-3	120-22	5 µg / \$80	20 µg / \$195	1 mg / \$3,900	<i>E.coli</i>
Human GDF-5 (BMP-14/CDMP-1)	120-01	10 µg / \$80	50 µg / \$195	1 mg / \$1,500	<i>E.coli</i>
Murine GDF-5 (BMP-14/CDMP-1)	315-24	10 µg / \$80	50 µg / \$195	1 mg / \$1,500	<i>E.coli</i>
Human GDF-7	120-37	2 µg / \$80	10 µg / \$195	1 mg / \$5,200	<i>E.coli</i>
Human/Murine/Rat GDF-11	120-11	5 µg / \$80	20 µg / \$195	1 mg / \$3,900	<i>E.coli</i>
Human GDF-15/MIC-1	120-28	5 µg / \$80	20 µg / \$195	1 mg / \$7,800	cell culture
Human GDF-15/MIC-1	120-28C	5 µg / \$80	20 µg / \$195	1 mg / \$5,200	CHO cells
Human GDNF	450-10	2 µg / \$80	10 µg / \$195	1 mg / \$5,200	<i>E.coli</i>
Murine GDNF	450-44	2 µg / \$80	10 µg / \$195	1 mg / \$5,200	<i>E.coli</i>
Rat GDNF	450-51	2 µg / \$80	10 µg / \$195	1 mg / \$5,200	<i>E.coli</i>
Human GITR/TNFRSF18 Fc	310-22R	20 µg / \$80	100 µg / \$195	1 mg / \$1,100	CHO cells
Human GLP-1	130-08	200 µg / \$80	1 mg / \$195	5 mg / \$700	<i>E.coli</i>

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PRODUCT DESCRIPTION	CATALOG NUMBER	SIZE A	SIZE B	PRICE PER MG	SOURCE
Staphylococcus Glu-C	450-46	50 µg / \$80	250 µg / \$195	1 mg / \$600	<i>E.coli</i>
Human GM-CSF	300-03	5 µg / \$80	20 µg / \$195	1 mg / \$3,250	<i>E.coli</i>
Murine GM-CSF	315-03	5 µg / \$80	20 µg / \$195	1 mg / \$3,250	<i>E.coli</i>
Rat GM-CSF	400-23	5 µg / \$80	20 µg / \$195	1 mg / \$3,250	<i>E.coli</i>
Human GMF-β	450-37	2 µg / \$80	10 µg / \$195	1 mg / \$5,200	<i>E.coli</i>
Human GPR15L	300-71	5 µg / \$80	25 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Murine GPR15L	300-72	5 µg / \$80	25 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Murine Granzyme B	140-03	2 µg / \$80	10 µg / \$195	1 mg / \$7,800	Baculovirus
Human Gremlin-1	120-42	10 µg / \$80	50 µg / \$195	1 mg / \$1,500	CHO cells
Human GRO-α/MGSA (CXCL1)	300-11	5 µg / \$80	25 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Rat GRO/KC (CXCL1)	400-10	5 µg / \$80	25 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human GRO-β (CXCL2)	300-39	2 µg / \$80	10 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Rat GRO-β/MIP-2 (CXCL2)	400-11	5 µg / \$80	25 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human GRO-γ (CXCL3)	300-40	2 µg / \$80	10 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human Growth Hormone	100-40	10 µg / \$80	50 µg / \$195	1 mg / \$800	<i>E.coli</i>
Human HB-EGF	100-47	10 µg / \$80	50 µg / \$195	1 mg / \$1,500	<i>E.coli</i>
Murine HB-EGF	315-35	10 µg / \$80	50 µg / \$195	1 mg / \$1,500	<i>E.coli</i>
Human HCC-1 (CCL14)(72 a.a.)	300-38	2 µg / \$80	10 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human HCC-1 (CCL14)(66 a.a.)	300-38B	2 µg / \$80	10 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human Heregulinβ-1	100-03	10 µg / \$80	50 µg / \$195	1 mg / \$1,500	<i>E.coli</i>
Human HGF	100-39	2 µg / \$80	10 µg / \$195	1 mg / \$4,800	Insect cells
Human HGF	100-39H	5 µg / \$80	25 µg / \$195	1 mg / \$3,000	HEK293 cells
Murine HGF	315-23	5 µg / \$80	20 µg / \$195	1 mg / \$3,900	Insect cells
Human HPRG	100-60	5 µg / \$80	25 µg / \$195	1 mg / \$3,000	CHO cells
Human HVEM-Fc	310-27	20 µg / \$80	100 µg / \$195	1 mg / \$1,100	Insect cells
Human I-309 (CCL1)	300-37	2 µg / \$80	10 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human ICAM-1	150-05	10 µg / \$80	50 µg / \$195	1 mg / \$1,500	CHO cells
Human ICAM-3 Fc	150-23	10 µg / \$80	50 µg / \$195	1 mg / \$1,500	CHO cells
Human ICOS Fc	310-39	10 µg / \$80	50 µg / \$195	1 mg / \$1,500	CHO cells
Human IFN-β	300-02BC	5 µg / \$80	20 µg / \$195	1 mg / \$3,900	CHO cells
Human IFN-γ	300-02	20 µg / \$80	100 µg / \$195	1 mg / \$1,100	<i>E.coli</i>
Murine IFN-γ	315-05	20 µg / \$80	100 µg / \$195	1 mg / \$1,100	<i>E.coli</i>
Rat IFN-γ	400-20	20 µg / \$80	100 µg / \$195	1 mg / \$1,100	<i>E.coli</i>
Human IFN-λ1	300-02L	5 µg / \$80	20 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human IFN-λ2	300-02K	5 µg / \$80	20 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Murine IFN-λ2	250-33	5 µg / \$80	20 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human IFN-ω	300-02J	20 µg / \$80	100 µg / \$195	1 mg / \$1,100	<i>E.coli</i>
Human IGF-I	100-11	100 µg / \$80	500 µg / \$195	1 mg / \$250	<i>E.coli</i>
Murine IGF-I	250-19	10 µg / \$80	50 µg / \$195	1 mg / \$1,400	<i>E.coli</i>
Human IGF-I LR3	100-11R3	200 µg / \$80	1 mg / \$195	1 mg / \$195	<i>E.coli</i>
Human IGF-II	100-12	10 µg / \$80	50 µg / \$195	1 mg / \$1,400	<i>E.coli</i>
Human IGF-BP1	350-10	5 µg / \$80	25 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human IGF-BP2	350-06B	5 µg / \$80	20 µg / \$195	1 mg / \$5,200	Insect cells
Human IGF-BP3	100-08	5 µg / \$80	25 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human IGF-BP4	350-05B	5 µg / \$80	20 µg / \$195	1 mg / \$5,200	Insect cells
Human IGF-BP5	100-05	5 µg / \$80	25 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human IGF-BP6	350-07B	5 µg / \$80	20 µg / \$195	1 mg / \$5,200	Insect cells
Human IGF-BP7	350-09	5 µg / \$80	25 µg / \$195	1 mg / \$3,000	<i>E.coli</i>

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PRODUCT DESCRIPTION	CATALOG NUMBER	SIZE A	SIZE B	PRICE PER MG	SOURCE
Human IL-1 α	200-01A	2 μ g / \$80	10 μ g / \$195	1 mg / \$3,900	<i>E.coli</i>
Murine IL-1 α	211-11A	2 μ g / \$80	10 μ g / \$195	1 mg / \$3,900	<i>E.coli</i>
Rat IL-1 α	400-01A	2 μ g / \$80	10 μ g / \$195	1 mg / \$5,200	<i>E.coli</i>
Human IL-1 β	200-01B	2 μ g / \$80	10 μ g / \$195	1 mg / \$3,900	<i>E.coli</i>
Murine IL-1 β	211-11B	2 μ g / \$80	10 μ g / \$195	1 mg / \$3,900	<i>E.coli</i>
Rat IL-1 β	400-01B	2 μ g / \$80	10 μ g / \$195	1 mg / \$5,200	<i>E.coli</i>
Human IL-1RA	200-01RA	20 μ g / \$80	100 μ g / \$195	1 mg / \$1,100	<i>E.coli</i>
Human IL-2	200-02	10 μ g / \$80	50 μ g / \$195	1 mg / \$800	<i>E.coli</i>
Murine IL-2	212-12	5 μ g / \$80	20 μ g / \$195	1 mg / \$2,800	<i>E.coli</i>
Rat IL-2	400-02	5 μ g / \$80	20 μ g / \$195	1 mg / \$2,800	<i>E.coli</i>
Human sIL-2 Receptor α	200-02RC	5 μ g / \$80	25 μ g / \$195	1 mg / \$2,800	CHO cells
Human IL-3	200-03	2 μ g / \$80	10 μ g / \$195	1 mg / \$3,000	<i>E.coli</i>
Murine IL-3	213-13	2 μ g / \$80	10 μ g / \$195	1 mg / \$3,000	<i>E.coli</i>
Rat IL-3 β	400-03	5 μ g / \$80	20 μ g / \$195	1 mg / \$3,000	<i>E.coli</i>
Human IL-4	200-04	5 μ g / \$80	20 μ g / \$195	1 mg / \$3,250	<i>E.coli</i>
Murine IL-4	214-14	5 μ g / \$80	20 μ g / \$195	1 mg / \$3,250	<i>E.coli</i>
Rat IL-4	400-04	5 μ g / \$80	20 μ g / \$195	1 mg / \$3,250	<i>E.coli</i>
Human sIL-4 Receptor α	200-04R	3 μ g / \$80	15 μ g / \$195	1 mg / \$4,000	HEK293 cells
Human sIL-4 Receptor α	200-04RC	5 μ g / \$80	20 μ g / \$195	1 mg / \$4,000	CHO cells
Human IL-5	200-05	2 μ g / \$80	10 μ g / \$195	1 mg / \$4,300	<i>E.coli</i>
Murine IL-5	215-15	5 μ g / \$80	25 μ g / \$195	1 mg / \$3,000	<i>E.coli</i>
Rat IL-5	400-05	2 μ g / \$80	10 μ g / \$195	1 mg / \$5,200	<i>E.coli</i>
Human IL-6	200-06	5 μ g / \$80	20 μ g / \$195	1 mg / \$3,000	<i>E.coli</i>
Murine IL-6	216-16	2 μ g / \$80	10 μ g / \$195	1 mg / \$3,000	<i>E.coli</i>
Rat IL-6	400-06	2 μ g / \$80	10 μ g / \$195	1 mg / \$5,200	<i>E.coli</i>
Human sIL-6 Receptor α	200-06RC	5 μ g / \$80	20 μ g / \$195	1 mg / \$3,000	CHO cells
Human IL-7	200-07	2 μ g / \$80	10 μ g / \$195	1 mg / \$5,200	<i>E.coli</i>
Murine IL-7	217-17	2 μ g / \$80	10 μ g / \$195	1 mg / \$5,200	<i>E.coli</i>
Rat IL-7	400-07	2 μ g / \$80	10 μ g / \$195	1 mg / \$5,200	<i>E.coli</i>
Human IL-8 (CXCL8) (72 a.a.)	200-08M	5 μ g / \$80	25 μ g / \$195	1 mg / \$3,000	<i>E.coli</i>
Human IL-8 (CXCL8) (77 a.a.)	200-08	5 μ g / \$80	25 μ g / \$195	1 mg / \$3,000	<i>E.coli</i>
Human IL-9	200-09	2 μ g / \$80	10 μ g / \$195	1 mg / \$5,200	<i>E.coli</i>
Murine IL-9	219-19	2 μ g / \$80	10 μ g / \$195	1 mg / \$5,200	<i>E.coli</i>
Rat IL-9	400-18	2 μ g / \$80	10 μ g / \$195	1 mg / \$5,200	<i>E.coli</i>
Human IL-10	200-10	2 μ g / \$80	10 μ g / \$195	1 mg / \$5,200	<i>E.coli</i>
Murine IL-10	210-10	2 μ g / \$80	10 μ g / \$195	1 mg / \$5,200	<i>E.coli</i>
Rat IL-10	400-19	2 μ g / \$80	10 μ g / \$195	1 mg / \$5,200	<i>E.coli</i>
Human IL-11	200-11	2 μ g / \$80	10 μ g / \$195	1 mg / \$5,200	<i>E.coli</i>
Murine IL-11	220-11	2 μ g / \$80	10 μ g / \$195	1 mg / \$5,200	<i>E.coli</i>
Murine IL-12 p40	210-12P40H	2 μ g / \$80	10 μ g / \$195	1 mg / \$5,200	HEK293 cells
Human IL-12 p70	200-12	2 μ g / \$80	10 μ g / \$195	1 mg / \$5,200	CHO cells
Human IL-12 p70	200-12H	2 μ g / \$80	10 μ g / \$195	1 mg / \$5,200	HEK293 cells
Murine IL-12 p70	210-12	2 μ g / \$80	10 μ g / \$195	1 mg / \$5,200	CHO cells
Human IL-12 p80	200-12P80H	2 μ g / \$80	10 μ g / \$195	1 mg / \$7,800	Insect cells
Murine IL-12 p80	210-12P80H	2 μ g / \$80	10 μ g / \$195	1 mg / \$5,200	HEK293 cells
Human IL-13	200-13	2 μ g / \$80	10 μ g / \$195	1 mg / \$5,200	<i>E.coli</i>
Murine IL-13	210-13	2 μ g / \$80	10 μ g / \$195	1 mg / \$5,200	<i>E.coli</i>
Rat IL-13 (109 a.a.)	400-16	2 μ g / \$80	10 μ g / \$195	1 mg / \$5,200	<i>E.coli</i>

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PRODUCT DESCRIPTION	CATALOG NUMBER	SIZE A	SIZE B	PRICE PER MG	SOURCE
Rat IL-13 (113 a.a.)	400-16L	2 µg / \$80	10 µg / \$195	1 mg / \$5,200	<i>E.coli</i>
Human IL-13 Variant	200-13A	2 µg / \$80	10 µg / \$195	1 mg / \$5,200	<i>E.coli</i>
Human IL-15	200-15	2 µg / \$80	10 µg / \$195	1 mg / \$3,900	<i>E.coli</i>
Murine IL-15	210-15	2 µg / \$80	10 µg / \$195	1 mg / \$3,900	<i>E.coli</i>
Rat IL-15	400-24	2 µg / \$80	10 µg / \$195	1 mg / \$3,900	<i>E.coli</i>
Human IL-16 (121 a.a.)	200-16A	2 µg / \$80	10 µg / \$195	1 mg / \$5,200	<i>E.coli</i>
Human IL-16 (129 a.a.)	200-16	2 µg / \$80	10 µg / \$195	1 mg / \$5,200	<i>E.coli</i>
Human IL-17A	200-17	5 µg / \$80	25 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Murine IL-17A	210-17	5 µg / \$80	25 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human IL-17B	200-28	5 µg / \$80	25 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human IL-17D	200-27	5 µg / \$80	25 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Murine IL-17D	210-17D	5 µg / \$80	25 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human IL-17E	200-24	5 µg / \$80	25 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Murine IL-17E	210-17E	5 µg / \$80	25 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human IL-17F	200-25	5 µg / \$80	25 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Murine IL-17F	210-17F	5 µg / \$80	25 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human IL-18BP Fc	200-18BP	20 µg / \$80	100 µg / \$195	1 mg / \$1,100	CHO cells
Human IL-19	200-19	2 µg / \$80	10 µg / \$195	1 mg / \$5,200	<i>E.coli</i>
Human IL-20	200-20	2 µg / \$80	10 µg / \$195	1 mg / \$5,200	<i>E.coli</i>
Human IL-21	200-21	2 µg / \$80	10 µg / \$195	1 mg / \$5,200	<i>E.coli</i>
Murine IL-21	210-21	2 µg / \$80	10 µg / \$195	1 mg / \$5,200	<i>E.coli</i>
Rat IL-21	400-41	2 µg / \$80	10 µg / \$195	1 mg / \$5,200	<i>E.coli</i>
Human IL-22	200-22	2 µg / \$80	10 µg / \$195	1 mg / \$5,200	<i>E.coli</i>
Murine IL-22	210-22	2 µg / \$80	10 µg / \$195	1 mg / \$5,200	<i>E.coli</i>
Human IL-23	200-23	2 µg / \$80	10 µg / \$195	1 mg / \$9,800	Insect cells
Human IL-24	200-35	5 µg / \$80	20 µg / \$195	1 mg / \$3,900	CHO cells
Human IL-27	200-38	2 µg / \$80	10 µg / \$195	1 mg / \$5,200	HEK293 cells
Human IL-31	200-31	2 µg / \$80	10 µg / \$195	1 mg / \$5,200	<i>E.coli</i>
Murine IL-31	210-31	2 µg / \$80	10 µg / \$195	1 mg / \$5,200	<i>E.coli</i>
Human IL-33	200-33	2 µg / \$80	10 µg / \$195	1 mg / \$5,200	<i>E.coli</i>
Murine IL-33	210-33	2 µg / \$80	10 µg / \$195	1 mg / \$5,200	<i>E.coli</i>
Human IL-34	200-34	2 µg / \$80	10 µg / \$195	1 mg / \$5,200	HEK293 cells
Human IL-35	200-37	2 µg / \$80	10 µg / \$195	1 mg / \$5,200	HEK293 cells
Human IL-36α (IL-1F6)	200-36A	2 µg / \$80	10 µg / \$195	1 mg / \$5,200	<i>E.coli</i>
Human IL-36β (IL-1F8)	200-36B	2 µg / \$80	10 µg / \$195	1 mg / \$5,200	<i>E.coli</i>
Human IL-36γ (IL-1F9)	200-36G	2 µg / \$80	10 µg / \$195	1 mg / \$5,200	<i>E.coli</i>
Human IL-36RA	200-36RA	5 µg / \$80	25 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Murine IL-36RA	210-36RA	5 µg / \$80	25 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human IL-37 (IL-1F7)	200-39	5 µg / \$80	25 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human INSL5/INSL7 Hybrid	130-05	5 µg / \$80	25 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human IP-10 (CXCL10)	300-12	5 µg / \$80	25 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Murine IP-10 (CXCL10)	250-16	5 µg / \$80	25 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Rat IP-10 (CXCL10)	400-33	5 µg / \$80	25 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human/Murine/Rat Irisin	100-65	2 µg / \$80	10 µg / \$195	1 mg / \$5,200	CHO cells
Human I-TAC (CXCL11)	300-46	5 µg / \$80	20 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Murine I-TAC (CXCL11)	250-29	5 µg / \$80	20 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Murine JE/MCP-1 (CCL2)	250-10	2 µg / \$80	10 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Murine KC (CXCL1)	250-11	5 µg / \$80	20 µg / \$195	1 mg / \$3,000	<i>E.coli</i>

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PRODUCT DESCRIPTION	CATALOG NUMBER	SIZE A	SIZE B	PRICE PER MG	SOURCE
Yeast Kex-2	450-45	50 µg / \$80	250 µg / \$195	1 mg / \$600	Insect cells
Human KGF (FGF-7)	100-19	2 µg / \$80	10 µg / \$195	1 mg / \$5,200	<i>E.coli</i>
Murine KGF (FGF-7)	450-60	2 µg / \$80	10 µg / \$195	1 mg / \$5,200	<i>E.coli</i>
Human KLF4-TAT	110-08	5 µg / \$80	25 µg / \$195	1 mg / \$3,000	HEK293 cells
Human Klotho	100-53	5 µg / \$80	20 µg / \$195	1 mg / \$3,000	CHO cells
Human LAG-1 (CCL4L1)	300-58	5 µg / \$80	20 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human LD78β (CCL3L1)	300-56	5 µg / \$80	20 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human LEC (CCL16)	300-44	5 µg / \$80	20 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human Leptin	300-27	200 µg / \$80	1 mg / \$195	5 mg / \$500	<i>E.coli</i>
Murine Leptin	450-31	200 µg / \$80	1 mg / \$195	5 mg / \$500	<i>E.coli</i>
Rat Leptin	400-21	200 µg / \$80	1 mg / \$195	5 mg / \$500	<i>E.coli</i>
Human Leptin Receptor	300-27R	20 µg / \$80	100 µg / \$195	1 mg / \$1,100	CHO cells
Human LIF	300-05	5 µg / \$80	25 µg / \$195	1 mg / \$2,800	<i>E.coli</i>
Murine LIF	250-02	5 µg / \$80	25 µg / \$195	1 mg / \$2,800	<i>E.coli</i>
Human LIGHT	310-09B	3 µg / \$80	15 µg / \$195	1 mg / \$4,000	Insect cells
Murine LIGHT	315-12	5 µg / \$80	20 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human Lin28-TAT	110-06	5 µg / \$80	25 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Murine LIX (CXCL6)(70 a.a.)	250-36	5 µg / \$80	20 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Murine LIX (CXCL6)(92 a.a.)	250-17	5 µg / \$80	20 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human Lymphotactin (XCL1)	300-20	5 µg / \$80	20 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human MANF	450-06	5 µg / \$80	25 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human Maspin	130-12	5 µg / \$80	20 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human M-CSF	300-25	2 µg / \$80	10 µg / \$195	1 mg / \$4,300	<i>E.coli</i>
Murine M-CSF	315-02	2 µg / \$80	10 µg / \$195	1 mg / \$4,300	<i>E.coli</i>
Rat M-CSF	400-28	2 µg / \$80	10 µg / \$195	1 mg / \$5,200	<i>E.coli</i>
Human MCP-1 (CCL2)	300-04	5 µg / \$80	20 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Rat MCP-1 (CCL2)	400-12	2 µg / \$80	10 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human MCP-2 (CCL8)	300-15	2 µg / \$80	10 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Murine MCP-2 (CCL8)	250-14	5 µg / \$80	20 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human MCP-3 (CCL7)	300-17	2 µg / \$80	10 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Murine MCP-3 (CCL7)	250-08	2 µg / \$80	10 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human MCP-4 (CCL13)	300-24	5 µg / \$80	20 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Murine MCP-5 (CCL12)	250-04	5 µg / \$80	20 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human MD-2/LY96	160-07	10 µg / \$80	50 µg / \$195	1 mg / \$1,500	HEK293 cells
Human MDC (CCL22)(67 a.a.)	300-36	5 µg / \$80	20 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human MDC (CCL22)(69 a.a.)	300-36A	5 µg / \$80	20 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Murine MDC (CCL22)	250-23	5 µg / \$80	20 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human MEC (CCL28)	300-57	5 µg / \$80	20 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Murine MEC (CCL28)	250-30	5 µg / \$80	20 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human Mesothelin	100-63	10 µg / \$80	50 µg / \$195	1 mg / \$1,500	CHO cells
Human MIA	130-01	5 µg / \$80	20 µg / \$195	1 mg / \$3,900	<i>E.coli</i>
Human MIA-2	130-02	5 µg / \$80	20 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human Midkine	450-16	5 µg / \$80	20 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Murine Midkine	315-25	5 µg / \$80	20 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human MIF	300-69	5 µg / \$80	25 µg / \$195	1 mg / \$3,000	Insect cells
Human MIG (CXCL9)	300-26	5 µg / \$80	20 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Murine MIG (CXCL9)	250-18	5 µg / \$80	20 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human MIP-1α (CCL3)	300-08	5 µg / \$80	20 µg / \$195	1 mg / \$3,000	<i>E.coli</i>

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PRODUCT DESCRIPTION	CATALOG NUMBER	SIZE A	SIZE B	PRICE PER MG	SOURCE
Murine MIP-1 α (CCL3)	250-09	2 μ g / \$80	10 μ g / \$195	1 mg / \$3,000	<i>E.coli</i>
Rat MIP-1 α (CCL3)	400-15	5 μ g / \$80	20 μ g / \$195	1 mg / \$3,000	<i>E.coli</i>
Human MIP-1 β (CCL4)	300-09	2 μ g / \$80	10 μ g / \$195	1 mg / \$3,000	<i>E.coli</i>
Murine MIP-1 β (CCL4)	250-32	2 μ g / \$80	10 μ g / \$195	1 mg / \$3,000	<i>E.coli</i>
Rat MIP-1 β (CCL4)	400-09	5 μ g / \$80	20 μ g / \$195	1 mg / \$3,000	<i>E.coli</i>
Murine MIP-1 γ (CCL9/10)	250-12	5 μ g / \$80	20 μ g / \$195	1 mg / \$3,000	<i>E.coli</i>
Murine MIP-2 (CXCL2)	250-15	5 μ g / \$80	20 μ g / \$195	1 mg / \$3,000	<i>E.coli</i>
Viral MIP-2	350-03	10 μ g / \$80	50 μ g / \$195	1 mg / \$1,500	<i>E.coli</i>
Human MIP-3 (CCL23)	300-29	5 μ g / \$80	20 μ g / \$195	1 mg / \$3,000	<i>E.coli</i>
Human MIP-3 α (CCL20)	300-29A	5 μ g / \$80	20 μ g / \$195	1 mg / \$3,000	<i>E.coli</i>
Murine MIP-3 α (CCL20)	250-27	5 μ g / \$80	20 μ g / \$195	1 mg / \$3,000	<i>E.coli</i>
Human MIP-3 β (CCL19)	300-29B	5 μ g / \$80	20 μ g / \$195	1 mg / \$3,000	<i>E.coli</i>
Murine MIP-3 β (CCL19)	250-27B	5 μ g / \$80	20 μ g / \$195	1 mg / \$3,000	<i>E.coli</i>
Human MIP-4 (CCL18)	300-34	2 μ g / \$80	10 μ g / \$195	1 mg / \$3,000	<i>E.coli</i>
Human MIP-5 (CCL15)	300-43	5 μ g / \$80	25 μ g / \$195	1 mg / \$3,000	<i>E.coli</i>
Human MMP-1	420-01	2 μ g / \$80	10 μ g / \$195	1 mg / \$5,200	<i>E.coli</i>
Human MMP-2	420-02	2 μ g / \$80	10 μ g / \$195	1 mg / \$5,200	<i>E.coli</i>
Human MMP-3	420-03	2 μ g / \$80	10 μ g / \$195	1 mg / \$5,200	<i>E.coli</i>
Human MPF	100-62	10 μ g / \$80	50 μ g / \$195	1 mg / \$1,500	CHO cells
Human/Murine/Rat Myostatin	120-00	2 μ g / \$80	10 μ g / \$195	1 mg / \$5,200	<i>E.coli</i>
Human Myostatin-Propeptide	120-12	5 μ g / \$80	25 μ g / \$195	1 mg / \$5,200	<i>E.coli</i>
Human Nanog	120-21	5 μ g / \$80	20 μ g / \$195	1 mg / \$3,900	<i>E.coli</i>
Human Nanog-TAT	120-21B	5 μ g / \$80	20 μ g / \$195	1 mg / \$3,900	<i>E.coli</i>
Human NAP-2 (CXCL7)	300-14	2 μ g / \$80	10 μ g / \$195	1 mg / \$3,000	<i>E.coli</i>
Human Nesfatin-1	300-67	20 μ g / \$80	100 μ g / \$195	1 mg / \$1,100	<i>E.coli</i>
Human/Rat Neuritin	450-36D	5 μ g / \$80	20 μ g / \$195	1 mg / \$3,000	<i>E.coli</i>
Murine Neuropeptin	250-25B	5 μ g / \$80	25 μ g / \$195	1 mg / \$3,900	<i>E.coli</i>
Human Neuroserpin	130-14	5 μ g / \$80	25 μ g / \$195	1 mg / \$3,000	<i>E.coli</i>
Human Neurturin	450-11	5 μ g / \$80	20 μ g / \$195	1 mg / \$3,000	<i>E.coli</i>
Human β -NGF	450-01	20 μ g / \$80	100 μ g / \$195	1 mg / \$1,100	<i>E.coli</i>
Murine β -NGF	450-34	5 μ g / \$80	20 μ g / \$195	1 mg / \$3,000	<i>E.coli</i>
Human NNT-1/BCSF-3	450-18	2 μ g / \$80	10 μ g / \$195	1 mg / \$5,200	<i>E.coli</i>
Human Noggin	120-10C	5 μ g / \$80	20 μ g / \$195	1 mg / \$3,900	HEK293 cells
Murine Noggin	250-38	5 μ g / \$80	20 μ g / \$195	1 mg / \$3,900	<i>E.coli</i>
Human NOV	120-26	5 μ g / \$80	20 μ g / \$195	1 mg / \$3,900	<i>E.coli</i>
Human NP-1	300-42	5 μ g / \$80	20 μ g / \$195	1 mg / \$3,000	<i>E.coli</i>
Human NT-3	450-03	2 μ g / \$80	10 μ g / \$195	1 mg / \$5,200	<i>E.coli</i>
Human NT-4	450-04	2 μ g / \$80	10 μ g / \$195	1 mg / \$5,200	<i>E.coli</i>
Human Oncostatin M (196 a.a.)	300-10H	2 μ g / \$80	10 μ g / \$195	1 mg / \$5,200	HEK293 cells
Human Oncostatin M (209 a.a.)	300-10T	2 μ g / \$80	10 μ g / \$195	1 mg / \$5,200	<i>E.coli</i>
Human Oncostatin M (227 a.a.)	300-10	2 μ g / \$80	10 μ g / \$195	1 mg / \$5,200	<i>E.coli</i>
Rat Oncostatin M	400-36	2 μ g / \$80	10 μ g / \$195	1 mg / \$5,200	<i>E.coli</i>
Human OPG	450-14	10 μ g / \$80	50 μ g / \$195	1 mg / \$1,500	<i>E.coli</i>
Human Osteopontin	120-35	10 μ g / \$80	50 μ g / \$195	1 mg / \$1,500	HEK293 cells
Human OTOR	130-03	5 μ g / \$80	20 μ g / \$195	1 mg / \$3,900	<i>E.coli</i>
Human sOX40 Ligand	310-28	2 μ g / \$80	10 μ g / \$195	1 mg / \$5,200	Insect cells
Human p16-INK4a	110-02	5 μ g / \$80	20 μ g / \$195	1 mg / \$3,900	<i>E.coli</i>
Human p16-INK4a-TAT	110-02T	5 μ g / \$80	25 μ g / \$195	1 mg / \$3,000	<i>E.coli</i>

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PRODUCT DESCRIPTION	CATALOG NUMBER	SIZE A	SIZE B	PRICE PER MG	SOURCE
Human PAF-AH.....	140-10.....	5 µg / \$80	20 µg / \$195.....	1 mg / \$3,000	HEK293 cells
Human PAI-1	140-04.....	2 µg / \$80	10 µg / \$195.....	1 mg / \$5,200	<i>E.coli</i>
Human PAI-2	140-06.....	2 µg / \$80	10 µg / \$195.....	1 mg / \$5,200	<i>E.coli</i>
Human PD-1 Fc	310-40.....	10 µg / \$80	50 µg / \$195.....	1 mg / \$1,500	CHO cells
Human PDGF-AA	100-13A.....	2 µg / \$80	10 µg / \$195.....	1 mg / \$3,900	<i>E.coli</i>
Murine PDGF-AA	315-17.....	2 µg / \$80	10 µg / \$195.....	1 mg / \$3,900	<i>E.coli</i>
Human PDGF-AB	100-00AB	2 µg / \$80	10 µg / \$195.....	1 mg / \$3,900	<i>E.coli</i>
Human PDGF-BB.....	100-14B	2 µg / \$80	10 µg / \$195.....	1 mg / \$3,900	<i>E.coli</i>
Murine PDGF-BB.....	315-18.....	2 µg / \$80	10 µg / \$195.....	1 mg / \$3,900	<i>E.coli</i>
Human PDGF-CC.....	100-00CC.....	5 µg / \$80	20 µg / \$195.....	1 mg / \$3,000	<i>E.coli</i>
Human PD-L1 Fc	310-35.....	20 µg / \$80	100 µg / \$195.....	1 mg / \$1,100	CHO cells
Human PD-L2 Fc	310-38.....	20 µg / \$80	100 µg / \$195.....	1 mg / \$1,100	CHO cells
Human PECAM-1	150-06.....	10 µg / \$80	50 µg / \$195.....	1 mg / \$1,500	HEK293 cells
Human PEDF	130-13.....	5 µg / \$80	20 µg / \$195.....	1 mg / \$3,900	<i>E.coli</i>
Human Persephin.....	450-12.....	5 µg / \$80	20 µg / \$195.....	1 mg / \$3,000	<i>E.coli</i>
Murine Persephin.....	450-35.....	5 µg / \$80	20 µg / \$195.....	1 mg / \$3,000	<i>E.coli</i>
Human PF-4 (CXCL4).....	300-16.....	5 µg / \$80	20 µg / \$195.....	1 mg / \$3,000	<i>E.coli</i>
Murine PF-4 (CXCL4).....	250-39.....	5 µg / \$80	20 µg / \$195.....	1 mg / \$3,000	<i>E.coli</i>
Human Pleiotrophin.....	450-15.....	5 µg / \$80	20 µg / \$195.....	1 mg / \$3,000	<i>E.coli</i>
Human PlGF-1.....	100-06.....	5 µg / \$80	25 µg / \$195.....	1 mg / \$3,000	<i>E.coli</i>
Rat PlGF-1.....	400-39.....	5 µg / \$80	25 µg / \$195.....	1 mg / \$3,000	<i>E.coli</i>
Human PlGF-2.....	100-56A.....	5 µg / \$80	25 µg / \$195.....	1 mg / \$3,000	<i>E.coli</i>
Human PlGF-3.....	100-57.....	5 µg / \$80	25 µg / \$195.....	1 mg / \$3,000	<i>E.coli</i>
Human Prokineticin-2.....	100-46.....	5 µg / \$80	20 µg / \$195.....	1 mg / \$3,000	<i>E.coli</i>
Murine Prokineticin-2.....	315-38.....	5 µg / \$80	20 µg / \$195.....	1 mg / \$3,000	<i>E.coli</i>
Human Prolactin	100-07.....	10 µg / \$80	50 µg / \$195.....	1 mg / \$1,500	<i>E.coli</i>
Murine Prolactin	315-16.....	10 µg / \$80	50 µg / \$195.....	1 mg / \$1,500	<i>E.coli</i>
Rat Prolactin	400-27.....	10 µg / \$80	50 µg / \$195.....	1 mg / \$1,500	<i>E.coli</i>
Human PTHrP	100-09.....	10 µg / \$80	50 µg / \$195.....	1 mg / \$1,500	<i>E.coli</i>
Human R-Spondin-1	120-38.....	5 µg / \$80	20 µg / \$195	1 mg / \$3,000	CHO cells
Murine R-Spondin-1	315-32.....	5 µg / \$80	20 µg / \$195	1 mg / \$3,000	CHO cells
Human R-Spondin-2	120-43.....	5 µg / \$80	20 µg / \$195	1 mg / \$3,000	CHO cells
Human R-Spondin-3	120-44.....	5 µg / \$80	20 µg / \$195.....	1 mg / \$3,000	CHO cells
Human sRANK Ligand.....	310-01.....	2 µg / \$80	10 µg / \$195.....	1 mg / \$5,200	<i>E.coli</i>
Human sRANK Ligand.....	310-01C	2 µg / \$80	10 µg / \$195.....	1 mg / \$5,200	CHO cells
Murine sRANK Ligand.....	315-11	2 µg / \$80	10 µg / \$195.....	1 mg / \$5,200	<i>E.coli</i>
Murine sRANK Ligand.....	315-11C	2 µg / \$80	10 µg / \$195.....	1 mg / \$5,200	CHO cells
Rat sRANK Ligand.....	400-30	2 µg / \$80	10 µg / \$195.....	1 mg / \$5,200	<i>E.coli</i>
Human sRANK Receptor.....	310-08	20 µg / \$80	100 µg / \$195.....	1 mg / \$1,100	<i>E.coli</i>
Human RANTES (CCL5).....	300-06.....	5 µg / \$80	20 µg / \$195.....	1 mg / \$3,000	<i>E.coli</i>
Murine RANTES (CCL5).....	250-07.....	5 µg / \$80	20 µg / \$195.....	1 mg / \$3,000	<i>E.coli</i>
Rat RANTES (CCL5).....	400-13.....	5 µg / \$80	20 µg / \$195.....	1 mg / \$3,000	<i>E.coli</i>
Human Relaxin-2.....	130-15.....	5 µg / \$80	25 µg / \$195.....	1 mg / \$3,000	<i>E.coli</i>
Human Relaxin-3.....	130-10.....	5 µg / \$80	25 µg / \$195.....	1 mg / \$3,000	<i>E.coli</i>
Murine RELM α	450-26.....	5 µg / \$80	25 µg / \$195.....	1 mg / \$3,000	<i>E.coli</i>
Human RELM β	450-22.....	5 µg / \$80	25 µg / \$195.....	1 mg / \$3,000	<i>E.coli</i>
Murine RELM β	450-26B	5 µg / \$80	25 µg / \$195.....	1 mg / \$3,000	<i>E.coli</i>
Murine RELM γ	450-26G	5 µg / \$80	25 µg / \$195.....	1 mg / \$3,000	<i>E.coli</i>

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PRODUCT DESCRIPTION	CATALOG NUMBER	SIZE A	SIZE B	PRICE PER MG	SOURCE
Human Resistin	450-19	5 µg / \$80	25 µg / \$195	1 mg / \$5,200	<i>E.coli</i>
Murine Resistin	450-28	5 µg / \$80	25 µg / \$195	1 mg / \$5,200	<i>E.coli</i>
Rat Resistin	400-35	5 µg / \$80	25 µg / \$195	1 mg / \$5,200	<i>E.coli</i>
Human ROR1	160-04	20 µg / \$80	100 µg / \$195	1 mg / \$1,100	CHO cells
Human SCF	300-07	2 µg / \$80	10 µg / \$195	1 mg / \$2,400	<i>E.coli</i>
Murine SCF	250-03	2 µg / \$80	10 µg / \$195	1 mg / \$2,400	<i>E.coli</i>
Rat SCF	400-22	2 µg / \$80	10 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human SCGF-α	100-22A	2 µg / \$80	10 µg / \$195	1 mg / \$5,200	<i>E.coli</i>
Human SCGF-β	100-22B	2 µg / \$80	10 µg / \$195	1 mg / \$5,200	<i>E.coli</i>
Human Sclerostin	100-49	5 µg / \$80	20 µg / \$195	1 mg / \$3,900	CHO cells
Human SDF-1α (CXCL12)	300-28A	2 µg / \$80	10 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Murine SDF-1α (CXCL12)	250-20A	2 µg / \$80	10 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Rat SDF-1α (CXCL12)	400-32A	2 µg / \$80	10 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human SDF-1β (CXCL12)	300-28B	2 µg / \$80	10 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Murine SDF-1β (CXCL12)	250-20B	2 µg / \$80	10 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Rat SDF-1β (CXCL12)	400-32B	2 µg / \$80	10 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human SDF-1γ	300-28G	2 µg / \$80	10 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human Semaphorin 3A Fc	150-17H	5 µg / \$80	25 µg / \$195	1 mg / \$3,000	CHO cells
Murine SF-20	210-25	2 µg / \$80	10 µg / \$195	1 mg / \$5,200	<i>E.coli</i>
Human Slit2-N	150-11	5 µg / \$80	25 µg / \$195	1 mg / \$3,900	HEK293 cells
Human Sonic Hedgehog (Shh)	100-45	5 µg / \$80	25 µg / \$195	1 mg / \$2,800	<i>E.coli</i>
Murine Sonic Hedgehog (Shh)	315-22	5 µg / \$80	25 µg / \$195	1 mg / \$2,800	<i>E.coli</i>
Human Sox2	110-03	5 µg / \$80	25 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human Sox2-TAT	110-03T	5 µg / \$80	25 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human SPARC/Osteonectin	120-36	10 µg / \$80	50 µg / \$195	1 mg / \$1,500	CHO cells
Human TACI	310-17	5 µg / \$80	20 µg / \$195	1 mg / \$5,200	<i>E.coli</i>
Human Tafa-2	300-63	5 µg / \$80	20 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human TARC (CCL17)	300-30	5 µg / \$80	20 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Murine TARC (CCL17)	250-43	5 µg / \$80	20 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human TECK (CCL25)	300-45	5 µg / \$80	20 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human TFF-1	300-60	5 µg / \$80	20 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Murine TFF-1	315-31	5 µg / \$80	20 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human TFF-2	300-59	5 µg / \$80	20 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Murine TFF-2	315-30	5 µg / \$80	20 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human TFF-3	300-61	5 µg / \$80	20 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human TGF-α	100-16A	20 µg / \$80	100 µg / \$195	1 mg / \$1,100	<i>E.coli</i>
Human TGF-β ₁	100-21	2 µg / \$80	10 µg / \$195	1 mg / \$5,200	HEK293 cells
Human TGF-β ₁	100-21C	2 µg / \$80	10 µg / \$195	1 mg / \$5,200	CHO cells
Human TGF-β ₂	100-35	2 µg / \$80	10 µg / \$195	1 mg / \$5,200	Insect cells
Human TGF-β ₂	100-35B	2 µg / \$80	10 µg / \$195	1 mg / \$5,200	HEK293 cells
Human TGF-β ₃	100-36E	2 µg / \$80	10 µg / \$195	1 mg / \$5,200	<i>E.coli</i>
Human Thrombomodulin	100-58	2 µg / \$80	10 µg / \$195	1 mg / \$3,900	HEK293 cells
Human/Murine/Rat Thymosin-β4	140-14	20 µg / \$80	100 µg / \$195	1 mg / \$1,100	<i>E.coli</i>
Human TIGAR	150-14	5 µg / \$80	25 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human TIGAR-TAT	150-14T	5 µg / \$80	25 µg / \$195	1 mg / \$3,000	<i>E.coli</i>
Human TIMP-1	410-01	2 µg / \$80	10 µg / \$195	1 mg / \$5,200	<i>E.coli</i>
Human TIMP-2	410-02	2 µg / \$80	10 µg / \$195	1 mg / \$5,200	<i>E.coli</i>
Human Tissue Factor	150-19T	2 µg / \$80	10 µg / \$195	1 mg / \$5,200	CHO cells

RUO Cytokines

PRODUCT DESCRIPTION	CATALOG NUMBER	SIZE A	SIZE B	PRICE PER MG	SOURCE
Human TL-1A.....	310-23.....	5 µg / \$80	20 µg / \$195.....	1 mg / \$3,000	<i>E.coli</i>
Human TLR-3	160-01.....	5 µg / \$80	25 µg / \$195.....	1 mg / \$3,000	HEK293 cells
Human TLR-4	160-06.....	10 µg / \$80	50 µg / \$195.....	1 mg / \$1,500	HEK293 cells
Human TMIGD2/CD28H Fc.....	310-42.....	10 µg / \$80	50 µg / \$195.....	1 mg / \$1,500	CHO cells
Human TNF-α	300-01A.....	10 µg / \$80	50 µg / \$195.....	1 mg / \$1,500	<i>E.coli</i>
Murine TNF-α	315-01A.....	5 µg / \$80	20 µg / \$195.....	1 mg / \$3,000	<i>E.coli</i>
Rat TNF-α	400-14.....	5 µg / \$80	20 µg / \$195.....	1 mg / \$3,000	<i>E.coli</i>
Human TNF-β.....	300-01B	5 µg / \$80	20 µg / \$195.....	1 mg / \$3,000	<i>E.coli</i>
Human sTNF Receptor Type I	310-07.....	5 µg / \$80	20 µg / \$195.....	1 mg / \$3,000	<i>E.coli</i>
Human sTNF Receptor Type II	310-12.....	5 µg / \$80	20 µg / \$195.....	1 mg / \$3,000	<i>E.coli</i>
Human TPO	300-18.....	2 µg / \$80	10 µg / \$195.....	1 mg / \$4,300	<i>E.coli</i>
Murine TPO	315-14.....	2 µg / \$80	10 µg / \$195.....	1 mg / \$4,300	<i>E.coli</i>
Rat TPO.....	400-34.....	2 µg / \$80	10 µg / \$195.....	1 mg / \$4,300	<i>E.coli</i>
Human sTRAIL/Apo2L.....	310-04.....	10 µg / \$80	50 µg / \$195.....	1 mg / \$1,500	<i>E.coli</i>
Murine TRAIL	315-19.....	10 µg / \$80	50 µg / \$195.....	1 mg / \$1,500	<i>E.coli</i>
Human sTRAIL Receptor-1	310-18.....	10 µg / \$80	50 µg / \$195.....	1 mg / \$1,500	<i>E.coli</i>
Human sTRAIL Receptor-2	310-19.....	10 µg / \$80	50 µg / \$195.....	1 mg / \$1,500	<i>E.coli</i>
Human TREM-1 Fc.....	310-36.....	10 µg / \$80	50 µg / \$195.....	1 mg / \$1,500	CHO cells
Human TSG	120-09.....	10 µg / \$80	50 µg / \$195.....	1 mg / \$1,500	<i>E.coli</i>
Human TSLP	300-62.....	2 µg / \$80	10 µg / \$195.....	1 mg / \$5,200	<i>E.coli</i>
Human TWEAK.....	310-06.....	5 µg / \$80	25 µg / \$195.....	1 mg / \$3,000	<i>E.coli</i>
Human TWEAK Receptor	310-21.....	5 µg / \$80	25 µg / \$195.....	1 mg / \$3,000	<i>E.coli</i>
Human Uteroglobulin.....	150-18.....	10 µg / \$80	50 µg / \$195.....	1 mg / \$1,500	<i>E.coli</i>
Human VAP-1.....	150-16.....	2 µg / \$80	10 µg / \$195.....	1 mg / \$5,200	CHO cells
Human Vaspin.....	130-11.....	5 µg / \$80	25 µg / \$195.....	1 mg / \$3,000	<i>E.coli</i>
Human VCAM-1	150-04.....	10 µg / \$80	50 µg / \$195.....	1 mg / \$1,500	HEK293 cells
Murine VCAM-1	315-37.....	10 µg / \$80	50 µg / \$195.....	1 mg / \$1,500	CHO cells
Human VEGF ₁₂₁	100-20A.....	2 µg / \$80	10 µg / \$195.....	1 mg / \$3,900	<i>E.coli</i>
Human VEGF ₁₆₅	100-20.....	2 µg / \$80	10 µg / \$195.....	1 mg / \$3,900	<i>E.coli</i>
Murine VEGF ₁₆₅	450-32.....	2 µg / \$80	10 µg / \$195.....	1 mg / \$3,900	<i>E.coli</i>
Rat VEGF ₁₆₅	400-31.....	2 µg / \$80	10 µg / \$195.....	1 mg / \$3,900	<i>E.coli</i>
Human VEGF-B	100-20B	5 µg / \$80	20 µg / \$195.....	1 mg / \$3,900	<i>E.coli</i>
Human VEGF-C	100-20CD.....	5 µg / \$80	20 µg / \$195.....	1 mg / \$3,000	HEK293 cells
Human VEGF-D	100-20D.....	2 µg / \$80	10 µg / \$195.....	1 mg / \$5,200	HEK293 cells
Human Vimentin	110-10.....	20 µg / \$80	100 µg / \$195.....	1 mg / \$1,100	<i>E.coli</i>
Human Visfatin.....	130-09.....	5 µg / \$80	25 µg / \$195.....	1 mg / \$3,000	<i>E.coli</i>
Human Vitronectin.....	140-09.....	100 µg / \$80	500 µg / \$195.....	1 mg / \$250.....	HEK293 cells
Human WISP-1	120-18.....	5 µg / \$80	20 µg / \$195.....	1 mg / \$3,900	<i>E.coli</i>
Human WISP-3	120-20.....	5 µg / \$80	20 µg / \$195.....	1 mg / \$3,900	<i>E.coli</i>
Human Wnt-1	120-17.....	2 µg / \$80	10 µg / \$195.....	1 mg / \$5,200	<i>E.coli</i>
Murine Wnt-3a	315-20.....	2 µg / \$80	10 µg / \$195.....	N/A.....	Cell Culture
Human Wnt-7a	120-31.....	3 µg / \$80	15 µg / \$195.....	1 mg / \$4,800.....	HEK293 cells
Human Wnt-9b	120-49.....	5 µg / \$80	20 µg / \$195.....	1 mg / \$5,200.....	CHO cells

Antigen Affinity-Purified Polyclonal/Biotinylated Antibodies

PeproTech's polyclonal antibodies are purified through the isolation of specific polyclonal antibodies from antiserum by antigen affinity chromatography. This procedure exploits the specificity of the antibody-antigen interaction and typically yields >95% pure specific antibodies. Normally, the sera from host animals, after immunization with cytokines, contain only small amounts (<5%) of cytokine-specific antibody which cannot be effectively isolated by standard purification procedures (e.g. ion exchange chromatography) or by non-antigen-specific affinity procedures, such as protein A/G affinity purification.

The large quantities of unrelated IgGs found in the inferior preparations can considerably increase the background when the antibody is used in analytical procedures such as ELISA, neutralization, immunohistochemistry, and Western Blotting. Therefore, the use of the superior antigen affinity-purified antibody preparations can help alleviate background in these analytical procedures.

PeproTech's biotinylated antibodies are produced from highly pure and specific antigen affinity-purified polyclonal antibodies, and are therefore ideal for use in any analytical procedures that require biotinylated antibodies.

PRODUCT DESCRIPTION	CATALOG NUMBER	SIZE A	SIZE B	PRICE PER MG	SOURCE
Anti-Human Adiponectin	500-P239	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hAdiponectin	500-P239BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human AITRL	500-P244	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hAITRL	500-P244BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human Amphiregulin	500-P322	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hAmphiregulin	500-P322BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human ApoA-1	500-P331	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hApoA-1	500-P331BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human ApoE3	500-P238	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hApoE3	500-P238BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human APRIL	500-P192	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hAPRIL	500-P192BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human Artemin	500-P245	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hArtemin	500-P245BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human 4-1BB Ligand	500-P169	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-h4-1BB Ligand	500-P169BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human 4-1BB Receptor	500-P167G	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	goat
Biotinylated Anti-h4-1BB Receptor	500-P167GBT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	goat
Anti-Human BAFF	500-P163	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hBAFF	500-P163BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human BAFF	500-P163G	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	goat
Biotinylated Anti-hBAFF	500-P163GBT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	goat
Anti-Human BCA-1 (CXCL13)	500-P141	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hBCA-1 (CXCL13)	500-P141BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human BD-1	500-P253	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hBD-1	500-P253BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human BD-2	500-P161G	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	goat
Biotinylated Anti-hBD-2	500-P161GBT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	goat
Anti-Human BD-3	500-P241	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hBD-3	500-P241BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human BD-4	500-P268	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hBD-4	500-P268BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human BD-5	500-P323	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hBD-5	500-P323BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit

*h/m/r = human/murine/rat

Antigen Affinity-Purified Polyclonal/Biotinylated Antibodies

PRODUCT DESCRIPTION	CATALOG NUMBER	SIZE A	SIZE B	PRICE PER MG	SOURCE
Anti-Human/Murine/Rat BDNF	500-P84	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-h/m/rBDNF*	500-P84BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human Betacellulin	500-P254	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hBetacellulin	500-P254BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human/Murine/Rat BMP-2	500-P195	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-h/m/rBMP-2*	500-P195BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human BMP-7	500-P198	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hBMP-7	500-P198BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human BRAK (CXCL14)	500-P237	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hBRAK (CXCL14)	500-P237BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Murine C10 (CCL6)	500-P112	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-mC10 (CCL6)	500-P112BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human Cardiotrophin-1	500-P101	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hCardiotrophin-1	500-P101BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human sCD14	500-P320	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hsCD14	500-P320BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human sCD22	500-P227	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hsCD22	500-P227BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human sCD34	500-P327	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hsCD34	500-P327BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human sCD40 Ligand	500-P142G	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	goat
Biotinylated Anti-hsCD40 Ligand	500-P142GBT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	goat
Anti-Human CNTF	500-P140	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hCNTF	500-P140BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Rat CNTF	500-P79	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-rCNTF	500-P79BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human CRP	500-P242	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hCRP	500-P242BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human CTACK (CCL27)	500-P294	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hCTACK (CCL27)	500-P294BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human CTGF	500-P252	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hCTGF	500-P252BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human CTGFL/WISP-2	500-P212	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hCTGFL/WISP-2	500-P212BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human CXCL16	500-P200	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hCXCL16	500-P200BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Murine CXCL16	500-P201G	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	goat
Biotinylated Anti-mCXCL16	500-P201GBT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	goat
Anti-Human sDLL-4	500-P279	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hsDLL-4	500-P279BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human EGF	500-P45	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hEGF	500-P45BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Murine EGF	500-P174G	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	goat
Biotinylated Anti-mEGF	500-P174GBT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	goat
Anti-Rat EGF	500-P277	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-rEGF	500-P277BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human EGF Receptor (EGFR)	500-P306	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hEGF Receptor (EGFR)	500-P306BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit

*h/m/r = human/murine/rat

Antigen Affinity-Purified Polyclonal/Biotinylated Antibodies

PRODUCT DESCRIPTION	CATALOG NUMBER	SIZE A	SIZE B	PRICE PER MG	SOURCE
Anti-Human EG-VEGF	500-P188G	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	goat
Biotinylated Anti-hEG-VEGF	500-P188GBT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	goat
Anti-Human EMAP-II	500-P172G	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	goat
Biotinylated Anti-hEMAP-II	500-P172GBT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	goat
Anti-Human ENA-78 (CXCL5)	500-P91	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hENA-78 (CXCL5)	500-P91BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human Endostatin	500-P262	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hEndostatin	500-P262BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human Eotaxin (CCL11)	500-P41	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hEotaxin (CCL11)	500-P41BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human Eotaxin (CCL11)	500-P41G	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	goat
Biotinylated Anti-hEotaxin (CCL11)	500-P41GBT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	goat
Anti-Murine Eotaxin (CCL11)	500-P67	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-mEotaxin (CCL11)	500-P67BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human Eotaxin-2 (CCL24)	500-P103G	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	goat
Biotinylated Anti-hEotaxin-2 (CCL24)	500-P103GBT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	goat
Anti-Murine Eotaxin-2 (CCL24)	500-P175G	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	goat
Biotinylated Anti-mEotaxin-2 (CCL24)	500-P175GBT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	goat
Anti-Human Eotaxin-3 (CCL26)	500-P156G	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	goat
Biotinylated Anti-hEotaxin-3 (CCL26)	500-P156GBT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	goat
Anti-Human EPO	500-P318	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hEPO	500-P318BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human Exodus-2 (CCL21)	500-P109	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hExodus-2 (CCL21)	500-P109BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Murine Exodus-2 (CCL21)	500-P114	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-mExodus-2 (CCL21)	500-P114BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human sFas Ligand	500-P184G	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	goat
Biotinylated Anti-hsFas Ligand	500-P184GBT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	goat
Anti-Human sFas Receptor	500-P295	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hsFas Receptor	500-P295BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human FGF-acidic	500-P17	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hFGF-acidic	500-P17BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human FGF-basic	500-P18	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hFGF-basic	500-P18BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human FGF-4	500-P158	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hFGF-4	500-P158BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Murine FGF-9	500-P66	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-mFGF-9	500-P66BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human FGF-10	500-P151G	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	goat
Biotinylated Anti-hFGF-10	500-P151GBT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	goat
Anti-Human FGF-16	500-P160G	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	goat
Biotinylated Anti-hFGF-16	500-P160GBT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	goat
Anti-Human FGF-17	500-P152	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hFGF-17	500-P152BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human FGF-17	500-P152G	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	goat
Biotinylated Anti-hFGF-17	500-P152GBT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	goat
Anti-Human Flt3-Ligand	500-P42	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hFlt3-Ligand	500-P42BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit

Antigen Affinity-Purified Polyclonal/Biotinylated Antibodies

PRODUCT DESCRIPTION	CATALOG NUMBER	SIZE A	SIZE B	PRICE PER MG	SOURCE
Anti-Human Follistatin.....	500-P207.....	50 µg / \$195.....	100 µg / \$250.....	1 mg / \$1,700.....	rabbit
Biotinylated Anti-hFollistatin	500-P207BT.....	25 µg / \$195.....	50 µg / \$250.....	1 mg / \$3,400.....	rabbit
Anti-Human Fractalkine (CX3CL1)	500-P98.....	50 µg / \$195.....	100 µg / \$250.....	1 mg / \$1,700.....	rabbit
Biotinylated Anti-hFractalkine (CX3CL1)	500-P98BT.....	25 µg / \$195.....	50 µg / \$250.....	1 mg / \$3,400.....	rabbit
Anti-Human gAcrp30/Adipolean.....	500-P193G.....	50 µg / \$195.....	100 µg / \$250.....	1 mg / \$1,700.....	goat
Biotinylated Anti-hgAcrp30/Adipolean	500-P193GBT.....	25 µg / \$195.....	50 µg / \$250.....	1 mg / \$3,400.....	goat
Anti-Human Adipolean Variant	500-P205.....	50 µg / \$195.....	100 µg / \$250.....	1 mg / \$1,700.....	rabbit
Biotinylated Anti-hgAcrp30/Adipolean Variant.....	500-P205BT.....	25 µg / \$195.....	50 µg / \$250.....	1 mg / \$3,400.....	rabbit
Anti-Human Galectin-1.....	500-P210.....	50 µg / \$195.....	100 µg / \$250.....	1 mg / \$1,700.....	rabbit
Biotinylated Anti-hGalectin-1	500-P210BT.....	25 µg / \$195.....	50 µg / \$250.....	1 mg / \$3,400.....	rabbit
Anti-Human Galectin-3.....	500-P246.....	50 µg / \$195.....	100 µg / \$250.....	1 mg / \$1,700.....	rabbit
Biotinylated Anti-hGalectin-3	500-P246BT.....	25 µg / \$195.....	50 µg / \$250.....	1 mg / \$3,400.....	rabbit
Anti-Human GCP-2 (CXCL6)	500-P120.....	50 µg / \$195.....	100 µg / \$250.....	1 mg / \$1,700.....	rabbit
Biotinylated Anti-hGCP-2 (CXCL6).....	500-P120BT.....	25 µg / \$195.....	50 µg / \$250.....	1 mg / \$3,400.....	rabbit
Anti-Human G-CSF	500-P43.....	50 µg / \$195.....	100 µg / \$250.....	1 mg / \$1,700.....	rabbit
Biotinylated Anti-hG-CSF.....	500-P43BT.....	25 µg / \$195.....	50 µg / \$250.....	1 mg / \$3,400.....	rabbit
Anti-Murine G-CSF	500-P69.....	50 µg / \$195.....	100 µg / \$250.....	1 mg / \$1,700.....	rabbit
Biotinylated Anti-mG-CSF.....	500-P69BT.....	25 µg / \$195.....	50 µg / \$250.....	1 mg / \$3,400.....	rabbit
Anti-Human GDF-3	500-P235.....	50 µg / \$195.....	100 µg / \$250.....	1 mg / \$1,700.....	rabbit
Biotinylated Anti-hGDF-3.....	500-P235BT.....	25 µg / \$195.....	50 µg / \$250.....	1 mg / \$3,400.....	rabbit
Anti-Human GDNF.....	500-P81.....	50 µg / \$195.....	100 µg / \$250.....	1 mg / \$1,700.....	rabbit
Biotinylated Anti-hGDNF	500-P81BT.....	25 µg / \$195.....	50 µg / \$250.....	1 mg / \$3,400.....	rabbit
Anti-Human GM-CSF.....	500-P33.....	50 µg / \$195.....	100 µg / \$250.....	1 mg / \$1,700.....	rabbit
Biotinylated Anti-hGM-CSF	500-P33BT.....	25 µg / \$195.....	50 µg / \$250.....	1 mg / \$3,400.....	rabbit
Anti-Murine GM-CSF.....	500-P65.....	50 µg / \$195.....	100 µg / \$250.....	1 mg / \$1,700.....	rabbit
Biotinylated Anti-mGM-CSF	500-P65BT.....	25 µg / \$195.....	50 µg / \$250.....	1 mg / \$3,400.....	rabbit
Anti-Rat GM-CSF.....	500-P225.....	50 µg / \$195.....	100 µg / \$250.....	1 mg / \$1,700.....	rabbit
Biotinylated Anti-rGM-CSF	500-P225BT.....	25 µg / \$195.....	50 µg / \$250.....	1 mg / \$3,400.....	rabbit
Anti-Human GRO-α/MGSA (CXCL1)	500-P92.....	50 µg / \$195.....	100 µg / \$250.....	1 mg / \$1,700.....	rabbit
Biotinylated Anti-hGRO-α/MGSA (CXCL1).....	500-P92BT.....	25 µg / \$195.....	50 µg / \$250.....	1 mg / \$3,400.....	rabbit
Anti-Rat GRO/KC (CXCL1)	500-P74.....	50 µg / \$195.....	100 µg / \$250.....	1 mg / \$1,700.....	rabbit
Biotinylated Anti-rGRO/KC (CXCL1).....	500-P74BT.....	25 µg / \$195.....	50 µg / \$250.....	1 mg / \$3,400.....	rabbit
Anti-Human GRO-β (CXCL2).....	500-P104.....	50 µg / \$195.....	100 µg / \$250.....	1 mg / \$1,700.....	rabbit
Biotinylated Anti-hGRO-β (CXCL2).....	500-P104BT.....	25 µg / \$195.....	50 µg / \$250.....	1 mg / \$3,400.....	rabbit
Anti-Rat GRO-β/MIP-2 (CXCL2)	500-P75.....	50 µg / \$195.....	100 µg / \$250.....	1 mg / \$1,700.....	rabbit
Biotinylated Anti-rGRO-β/MIP-2 (CXCL2).....	500-P75BT.....	25 µg / \$195.....	50 µg / \$250.....	1 mg / \$3,400.....	rabbit
Anti-Human GRO-γ (CXCL3)	500-P105.....	50 µg / \$195.....	100 µg / \$250.....	1 mg / \$1,700.....	rabbit
Biotinylated Anti-hGRO-γ (CXCL3).....	500-P105BT.....	25 µg / \$195.....	50 µg / \$250.....	1 mg / \$3,400.....	rabbit
Anti-Human HB-EGF	500-P329.....	50 µg / \$195.....	100 µg / \$250.....	1 mg / \$1,700.....	rabbit
Biotinylated Anti-hHB-EGF	500-P329BT.....	25 µg / \$195.....	50 µg / \$250.....	1 mg / \$3,400.....	rabbit
Anti-Human HCC-1 (CCL14).....	500-P106.....	50 µg / \$195.....	100 µg / \$250.....	1 mg / \$1,700.....	rabbit
Biotinylated Anti-hHCC-1 (CCL14).....	500-P106BT.....	25 µg / \$195.....	50 µg / \$250.....	1 mg / \$3,400.....	rabbit
Anti-Human Heregulinβ-1	500-P288.....	50 µg / \$195.....	100 µg / \$250.....	1 mg / \$1,700.....	rabbit
Biotinylated Anti-hHeregulinβ-1.....	500-P288BT.....	25 µg / \$195.....	50 µg / \$250.....	1 mg / \$3,400.....	rabbit
Anti-Human I-309 (CCL1).....	500-P110.....	50 µg / \$195.....	100 µg / \$250.....	1 mg / \$1,700.....	rabbit
Biotinylated Anti-hI-309 (CCL1).....	500-P110BT.....	25 µg / \$195.....	50 µg / \$250.....	1 mg / \$3,400.....	rabbit
Anti-Human ICAM-1	500-P287.....	50 µg / \$195.....	100 µg / \$250.....	1 mg / \$1,700.....	rabbit
Biotinylated Anti-hICAM-1	500-P287BT.....	25 µg / \$195.....	50 µg / \$250.....	1 mg / \$3,400.....	rabbit

Antigen Affinity-Purified Polyclonal/Biotinylated Antibodies

PRODUCT DESCRIPTION	CATALOG NUMBER	SIZE A	SIZE B	PRICE PER MG	SOURCE
Anti-Human IFN- β	500-P32B	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hIFN- β	500-P32BBT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	rabbit
Anti-Human IFN- γ	500-P32	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hIFN- γ	500-P32BT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	rabbit
Anti-Murine IFN- γ	500-P119	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-mIFN- γ	500-P119BT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	rabbit
Anti-Rat IFN- γ	500-P122	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-rIFN- γ	500-P122BT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	rabbit
Anti-Rat IFN- γ	500-P122G	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	goat
Biotinylated Anti-rIFN- γ	500-P122GBT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	goat
Anti-Human IFN- λ 2	500-P247	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hIFN- λ 2	500-P247BT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	rabbit
Anti-Human IGF-I	500-P11	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hIGF-I	500-P11BT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	rabbit
Anti-Murine IGF-I	500-P157G	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	goat
Biotinylated Anti-mIGF-I	500-P157GBT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	goat
Anti-Human IGF-II	500-P12	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hIGF-II	500-P12BT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	rabbit
Anti-Human IGF-BP1	500-P228	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hIGF-BP1	500-P228BT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	rabbit
Anti-Human IGF-BP3	500-P230	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hIGF-BP3	500-P230BT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	rabbit
Anti-Human IGF-BP5	500-P232	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hIGF-BP5	500-P232BT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	rabbit
Anti-Human IGF-BP7	500-P234	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hIGF-BP7	500-P234BT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	rabbit
Anti-Human IL-1 α	500-P21A	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hIL-1 α	500-P21ABT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	rabbit
Anti-Murine IL-1 α	500-P51A	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-mIL-1 α	500-P51ABT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	rabbit
Anti-Rat IL-1 α	500-P180G	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	goat
Biotinylated Anti-rIL-1 α	500-P180GBT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	goat
Anti-Human IL-1 β	500-P21BG	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	goat
Biotinylated Anti-hIL-1 β	500-P21BGBT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	goat
Anti-Murine IL-1 β	500-P51	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-mIL-1 β	500-P51BT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	rabbit
Anti-Rat IL-1 β	500-P80	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-rIL-1 β	500-P80BT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	rabbit
Anti-Human IL-1RA	500-P209	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hIL-1RA	500-P209BT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	rabbit
Anti-Human IL-2	500-P22	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hIL-2	500-P22BT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	rabbit
Anti-Human IL-2	500-P22G	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	goat
Biotinylated Anti-hIL-2	500-P22GBT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	goat
Anti-Murine IL-2	500-P111	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-mIL-2	500-P111BT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	rabbit
Anti-Rat IL-2	500-P274	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-rIL-2	500-P274BT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	rabbit

Antigen Affinity-Purified Polyclonal/Biotinylated Antibodies

PRODUCT DESCRIPTION	CATALOG NUMBER	SIZE A	SIZE B	PRICE PER MG	SOURCE
Anti-Human sIL-2 Receptor α	500-P22R	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hsIL-2 Receptor α	500-P22RBT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	rabbit
Anti-Human IL-3	500-P23	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hIL-3	500-P23BT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	rabbit
Anti-Murine IL-3	500-P53	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-mIL-3	500-P53BT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	rabbit
Anti-Rat IL-3 β	500-P177G	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	goat
Biotinylated Anti-rIL-3 β	500-P177GBT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	goat
Anti-Human IL-4	500-P24	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hIL-4	500-P24BT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	rabbit
Anti-Murine IL-4	500-P54	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-mIL-4	500-P54BT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	rabbit
Anti-Rat IL-4	500-P94	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-rIL-4	500-P94BT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	rabbit
Anti-Human sIL-4 Receptor α	500-P325	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti hsIL-4 Receptor α	500-P325BT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	rabbit
Anti-Human IL-5	500-P25	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hIL-5	500-P25BT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	rabbit
Anti-Murine IL-5	500-P55	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-mIL-5	500-P55BT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	rabbit
Anti-Human IL-6	500-P26	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hIL-6	500-P26BT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	rabbit
Anti-Human IL-6	500-P26G	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	goat
Biotinylated Anti-hIL-6	500-P26GBT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	goat
Anti-Murine IL-6	500-P56	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-mIL-6	500-P56BT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	rabbit
Anti-Rat IL-6	500-P73	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-rIL-6	500-P73BT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	rabbit
Anti-Rat IL-6	500-P73G	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	goat
Biotinylated Anti-rIL-6	500-P73GBT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	goat
Anti-Human IL-7	500-P27	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hIL-7	500-P27BT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	rabbit
Anti-Murine IL-7	500-P57	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-mIL-7	500-P57BT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	rabbit
Anti-Rat IL-7	500-P310	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-rIL-7	500-P310BT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	rabbit
Anti-Human IL-8 (CXCL8)	500-P28	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hIL-8 (CXCL8)	500-P28BT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	rabbit
Anti-Human IL-9	500-P29	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hIL-9	500-P29BT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	rabbit
Anti-Murine IL-9	500-P59	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-mIL-9	500-P59BT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	rabbit
Anti-Human IL-10	500-P20	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hIL-10	500-P20BT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	rabbit
Anti-Murine IL-10	500-P60	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-mIL-10	500-P60BT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	rabbit
Anti-Rat IL-10	500-P139	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-rIL-10	500-P139BT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	rabbit

Antigen Affinity-Purified Polyclonal/Biotinylated Antibodies

PRODUCT DESCRIPTION	CATALOG NUMBER	SIZE A	SIZE B	PRICE PER MG	SOURCE
Anti-Human IL-11	500-P01	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hIL-11	500-P01BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human IL-12	500-P154G	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	goat
Biotinylated Anti-hIL-12	500-P154GBT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	goat
Anti-Murine IL-12	500-P155G	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	goat
Biotinylated Anti-mIL-12	500-P155GBT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	goat
Anti-Human IL-13	500-P13	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hIL-13	500-P13BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Murine IL-13	500-P178	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-mIL-13	500-P178BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Rat IL-13	500-P224	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-rIL-13	500-P224BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human IL-15	500-P15	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hIL-15	500-P15BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Murine IL-15	500-P173	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-mIL-15	500-P173BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human IL-16	500-P06	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hIL-16	500-P06BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human IL-17A	500-P07	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hIL-17A	500-P07BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human IL-17A	500-P07G	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	goat
Biotinylated Anti-hIL-17A	500-P07GBT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	goat
Anti-Murine IL-17A	500-P265	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-mIL-17A	500-P265BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human IL-17B	500-P248	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hIL-17B	500-P248BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human IL-17D	500-P88	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hIL-17D	500-P88BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human IL-17E	500-P89	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hIL-17E	500-P89BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human IL-17F	500-P90	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hIL-17F	500-P90BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Murine IL-18BP	500-P153G	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	goat
Biotinylated Anti-mIL-18BP	500-P153GBT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	goat
Anti-Human IL-19	500-P189	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hIL-19	500-P189BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human IL-20	500-P190G	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	goat
Biotinylated Anti-hIL-20	500-P190GBT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	goat
Anti-Human IL-21	500-P191	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hIL-21	500-P191BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Murine IL-21	500-P278	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-mIL-21	500-P278BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human IL-22	500-P211	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hIL-22	500-P211BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Murine IL-22	500-P223	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-mIL-22	500-P223BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human IL-31	500-P249	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hIL-31	500-P249BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit

Antigen Affinity-Purified Polyclonal/Biotinylated Antibodies

PRODUCT DESCRIPTION	CATALOG NUMBER	SIZE A	SIZE B	PRICE PER MG	SOURCE
Anti-Human IL-33	500-P261	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hIL-33	500-P261BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human IL-36γ (IL-1F9)	500-P316	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hIL-36γ (IL-1F9)	500-P316BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human IP-10 (CXCL10)	500-P93	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hIP-10 (CXCL10)	500-P93BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Murine IP-10 (CXCL10)	500-P129	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-mIP-10 (CXCL10)	500-P129BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Rat IP-10 (CXCL10)	500-P290	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-rIP-10 (CXCL10)	500-P290BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human I-TAC (CXCL11)	500-P132	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hI-TAC (CXCL11)	500-P132BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Murine JE/MCP-1 (CCL2)	500-P113	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-mJE/MCP-1 (CCL2)	500-P113BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Murine KC (CXCL1)	500-P115	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-mKC (CXCL1)	500-P115BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human KGF (FGF-7)	500-P19	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hKGF (FGF-7)	500-P19BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human Klotho	500-P296	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hKlotho	500-P296BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human LD78β (CCL3L1)	500-P187G	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	goat
Biotinylated Anti-hLD78β (CCL3L1)	500-P187GBT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	goat
Anti-Human LEC (CCL16)	500-P125G	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	goat
Biotinylated Anti-hLEC (CCL16)	500-P125GBT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	goat
Anti-Human Leptin	500-P86	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hLeptin	500-P86BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Murine Leptin	500-P68	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-mLeptin	500-P68BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Rat Leptin	500-P185G	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	goat
Biotinylated Anti-rLeptin	500-P185GBT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	goat
Anti-Human LIF	500-P39	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hLIF	500-P39BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human LIGHT	500-P179	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hLIGHT	500-P179BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Murine LIGHT	500-P308	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-mLIGHT	500-P308BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Murine LIX (CXCL6)	500-P146	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-mLIX (CXCL6)	500-P146BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human Lymphotactin (XCL1)	500-P40	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hLymphotactin (XCL1)	500-P40BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human Maspin	500-P270	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hMaspin	500-P270BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human MCP-1 (CCL2)	500-P34	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hMCP-1 (CCL2)	500-P34BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Rat MCP-1 (CCL2)	500-P76	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-rMCP-1 (CCL2)	500-P76BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human MCP-2 (CCL8)	500-P35	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hMCP-2 (CCL8)	500-P35BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit

Antigen Affinity-Purified Polyclonal/Biotinylated Antibodies

PRODUCT DESCRIPTION	CATALOG NUMBER	SIZE A	SIZE B	PRICE PER MG	SOURCE
Anti-Murine MCP-2 (CCL8)	500-P127	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-mMCP-2 (CCL8)	500-P127BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human MCP-3 (CCL7)	500-P37G	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	goat
Biotinylated Anti-hMCP-3 (CCL7)	500-P37GBT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	goat
Anti-Murine MCP-3 (CCL7)	500-P116G	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	goat
Biotinylated Anti-mMCP-3 (CCL7)	500-P116GBT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	goat
Anti-Human MCP-4 (CCL13)	500-P04	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hMCP-4 (CCL13)	500-P04BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human MCP-4 (CCL13)	500-P04G	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	goat
Biotinylated Anti-hMCP-4 (CCL13)	500-P04GBT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	goat
Anti-Murine MCP-5 (CCL12)	500-P61	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-mMCP-5 (CCL12)	500-P61BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human M-CSF	500-P44	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hM-CSF	500-P44BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Murine M-CSF	500-P62G	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	goat
Biotinylated Anti-mM-CSF	500-P62GBT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	goat
Anti-Human MDC (CCL22)	500-P107	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hMDC (CCL22)	500-P107BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Murine MDC (CCL22)	500-P176	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-mMDC (CCL22)	500-P176BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human MEC (CCL28)	500-P297	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hMEC (CCL28)	500-P297BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human MIA	500-P243	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hMIA	500-P243BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human MIA-2	500-P255	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hMIA-2	500-P255BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human Midkine	500-P171	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hMidkine	500-P171BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human MIG (CXCL9)	500-P50	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hMIG (CXCL9)	500-P50BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human MIP-1α (CCL3)	500-P38	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hMIP-1α (CCL3)	500-P38BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Murine MIP-1α (CCL3)	500-P121	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-mMIP-1α (CCL3)	500-P121BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Rat MIP-1α (CCL3)	500-P77	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-rMIP-1α (CCL3)	500-P77BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human MIP-1β (CCL4)	500-P38B	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hMIP-1β (CCL4)	500-P38BBT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Murine MIP-1β (CCL4)	500-P213	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-mMIP-1β (CCL4)	500-P213BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Murine MIP-1γ (CCL9/10)	500-P117	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-mMIP-1γ (CCL9/10)	500-P117BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Murine MIP-2 (CXCL2)	500-P130	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-mMIP-2 (CXCL2)	500-P130BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human MIP-3 (CCL23)	500-P124	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hMIP-3 (CCL23)	500-P124BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human MIP-3α (CCL20)	500-P95A	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hMIP-3α (CCL20)	500-P95ABT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit

Antigen Affinity-Purified Polyclonal/Biotinylated Antibodies

PRODUCT DESCRIPTION	CATALOG NUMBER	SIZE A	SIZE B	PRICE PER MG	SOURCE
Anti-Human MIP-3 β (CCL19).....	500-P95B	50 μ g / \$195.....	100 μ g / \$250.....	1 mg / \$1,700	rabbit
Biotinylated Anti-hMIP-3 β (CCL19).....	500-P95BBT	25 μ g / \$195.....	50 μ g / \$250.....	1 mg / \$3,400	rabbit
Anti-Human MIP-4 (CCL18)	500-P108.....	50 μ g / \$195.....	100 μ g / \$250.....	1 mg / \$1,700	rabbit
Biotinylated Anti-hMIP-4 (CCL18)	500-P108BT.....	25 μ g / \$195.....	50 μ g / \$250.....	1 mg / \$3,400	rabbit
Anti-Human MIP-5 (CCL15)	500-P123G	50 μ g / \$195.....	100 μ g / \$250.....	1 mg / \$1,700	goat
Biotinylated Anti-hMIP-5 (CCL15)	500-P123GBT	25 μ g / \$195.....	50 μ g / \$250.....	1 mg / \$3,400	goat
Anti-Human MMP-3.....	500-P324.....	50 μ g / \$195.....	100 μ g / \$250.....	1 mg / \$1,700	rabbit
Biotinylated Anti-hMMP-3	500-P324BT	25 μ g / \$195.....	50 μ g / \$250.....	1 mg / \$3,400	rabbit
Anti-Human Nanog	500-P236.....	50 μ g / \$195.....	100 μ g / \$250.....	1 mg / \$1,700	rabbit
Biotinylated Anti-hNanog.....	500-P236BT.....	25 μ g / \$195.....	50 μ g / \$250.....	1 mg / \$3,400	rabbit
Anti-Human NAP-2 (CXCL7).....	500-P03.....	50 μ g / \$195.....	100 μ g / \$250.....	1 mg / \$1,700	rabbit
Biotinylated Anti-hNAP-2 (CXCL7)	500-P03BT.....	25 μ g / \$195.....	50 μ g / \$250.....	1 mg / \$3,400	rabbit
Anti-Human NAP-2 (CXCL7).....	500-P03G	50 μ g / \$195.....	100 μ g / \$250.....	1 mg / \$1,700	goat
Biotinylated Anti-hNAP-2 (CXCL7)	500-P03GBT	25 μ g / \$195.....	50 μ g / \$250.....	1 mg / \$3,400	goat
Anti-Human Neuroserpin	500-P271.....	50 μ g / \$195.....	100 μ g / \$250.....	1 mg / \$1,700.....	rabbit
Biotinylated Anti-hNeuroserpin.....	500-P271BT.....	25 μ g / \$195.....	50 μ g / \$250.....	1 mg / \$3,400.....	rabbit
Anti-Human Neurturin	500-P102.....	50 μ g / \$195.....	100 μ g / \$250.....	1 mg / \$1,700	rabbit
Biotinylated Anti-hNeurturin	500-P102BT	25 μ g / \$195.....	50 μ g / \$250.....	1 mg / \$3,400	rabbit
Anti-Human β -NGF	500-P85.....	50 μ g / \$195.....	100 μ g / \$250.....	1 mg / \$1,700	rabbit
Biotinylated Anti-h β -NGF.....	500-P85BT	25 μ g / \$195.....	50 μ g / \$250.....	1 mg / \$3,400	rabbit
Anti-Human NNT-1/BCSF-3	500-P186.....	50 μ g / \$195.....	100 μ g / \$250.....	1 mg / \$1,700	rabbit
Biotinylated Anti-hNNT-1/BCSF-3.....	500-P186BT.....	25 μ g / \$195.....	50 μ g / \$250.....	1 mg / \$3,400	rabbit
Anti-Human NOV.....	500-P257.....	50 μ g / \$195.....	100 μ g / \$250.....	1 mg / \$1,700	rabbit
Biotinylated Anti-hNOV	500-P257BT.....	25 μ g / \$195.....	50 μ g / \$250.....	1 mg / \$3,400	rabbit
Anti-Human NP-1.....	500-P126G	50 μ g / \$195.....	100 μ g / \$250.....	1 mg / \$1,700	goat
Biotinylated Anti-hNP-1	500-P126GBT	25 μ g / \$195.....	50 μ g / \$250.....	1 mg / \$3,400	goat
Anti-Human NT-3.....	500-P82.....	50 μ g / \$195.....	100 μ g / \$250.....	1 mg / \$1,700	rabbit
Biotinylated Anti-hNT-3	500-P82BT.....	25 μ g / \$195.....	50 μ g / \$250.....	1 mg / \$3,400	rabbit
Anti-Human NT-3.....	500-P82G	50 μ g / \$195.....	100 μ g / \$250.....	1 mg / \$1,700	goat
Biotinylated Anti-hNT-3	500-P82GBT	25 μ g / \$195.....	50 μ g / \$250.....	1 mg / \$3,400	goat
Anti-Human NT-4.....	500-P83G	50 μ g / \$195.....	100 μ g / \$250.....	1 mg / \$1,700	goat
Biotinylated Anti-hNT-4	500-P83GBT	25 μ g / \$195.....	50 μ g / \$250.....	1 mg / \$3,400	goat
Anti-Human Oncostatin M	500-P30.....	50 μ g / \$195.....	100 μ g / \$250.....	1 mg / \$1,700	rabbit
Biotinylated Anti-hOncostatin M.....	500-P30BT.....	25 μ g / \$195.....	50 μ g / \$250.....	1 mg / \$3,400	rabbit
Anti-Human OPG	500-P149.....	50 μ g / \$195.....	100 μ g / \$250.....	1 mg / \$1,700	rabbit
Biotinylated Anti-hOPG.....	500-P149BT.....	25 μ g / \$195.....	50 μ g / \$250.....	1 mg / \$3,400	rabbit
Anti-Human Osteopontin	500-P314.....	50 μ g / \$195.....	100 μ g / \$250.....	1 mg / \$1,700	rabbit
Biotinylated Anti-hOsteopontin	500-P314BT.....	25 μ g / \$195.....	50 μ g / \$250.....	1 mg / \$3,400	rabbit
Anti-Human p16-INK4a-TAT.....	500-P284T	50 μ g / \$195.....	100 μ g / \$250.....	1 mg / \$1,700	rabbit
Biotinylated Anti-hp16-INK4a-TAT	500-P284TBT	25 μ g / \$195.....	50 μ g / \$250.....	1 mg / \$3,400	rabbit
Anti-Human PAI-1.....	500-P260.....	50 μ g / \$195.....	100 μ g / \$250.....	1 mg / \$1,700	rabbit
Biotinylated Anti-hPAI-1	500-P260BT.....	25 μ g / \$195.....	50 μ g / \$250.....	1 mg / \$3,400	rabbit
Anti-Human PDGF-AA	500-P46.....	50 μ g / \$195.....	100 μ g / \$250.....	1 mg / \$1,700	rabbit
Biotinylated Anti-hPDGF-AA.....	500-P46BT	25 μ g / \$195.....	50 μ g / \$250.....	1 mg / \$3,400	rabbit
Anti-Human PDGF-BB	500-P47.....	50 μ g / \$195.....	100 μ g / \$250.....	1 mg / \$1,700	rabbit
Biotinylated Anti-hPDGF-BB.....	500-P47BT.....	25 μ g / \$195.....	50 μ g / \$250.....	1 mg / \$3,400	rabbit
Anti-Human PD-L1 Fc.....	500-P321.....	50 μ g / \$195.....	100 μ g / \$250.....	1 mg / \$1,700	rabbit
Biotinylated Anti-hPD-L1 Fc.....	500-P321BT.....	25 μ g / \$195.....	50 μ g / \$250.....	1 mg / \$3,400	rabbit

Antigen Affinity-Purified Polyclonal/Biotinylated Antibodies

PRODUCT DESCRIPTION	CATALOG NUMBER	SIZE A	SIZE B	PRICE PER MG	SOURCE
Anti-Human Persephin	500-P138	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hPersephin	500-P138BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human PF-4 (CXCL4)	500-P05	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hPF-4 (CXCL4)	500-P05BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human PlGF-1	500-P226	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hPlGF-1	500-P226BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human PTHrP	500-P276	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hPTHrP	500-P276BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human sRANK Ligand	500-P133	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hsRANK Ligand	500-P133BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human sRANK Ligand	500-P133G	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	goat
Biotinylated Anti-hsRANK Ligand	500-P133GBT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	goat
Anti-Murine sRANK Ligand	500-P63	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-msRANK Ligand	500-P63BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human sRANK Receptor	500-P144	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hsRANK Receptor	500-P144BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human RANTES (CCL5)	500-P36	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hRANTES (CCL5)	500-P36BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Murine RANTES (CCL5)	500-P118	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-mRANTES (CCL5)	500-P118BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Rat RANTES (CCL5)	500-P78	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-rRANTES (CCL5)	500-P78BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Murine RELM α	500-P214	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-mRELM α	500-P214BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human RELM β	500-P217	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hRELM β	500-P217BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Murine RELM β	500-P215	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-mRELM β	500-P215BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human Resistin	500-P183	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hResistin	500-P183BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human Resistin	500-P183G	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	goat
Biotinylated Anti-hResistin	500-P183GBT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	goat
Anti-Murine Resistin	500-P182G	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	goat
Biotinylated Anti-mResistin	500-P182GBT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	goat
Anti-Human SCF	500-P48	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hSCF	500-P48BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human SCF	500-P48G	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	goat
Biotinylated Anti-hSCF	500-P48GBT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	goat
Anti-Murine SCF	500-P71	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-mSCF	500-P71BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Rat SCF	500-P202	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-rSCF	500-P202BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human SCGF- α	500-P162	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hSCGF- α	500-P162BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human SCGF- β	500-P99G	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	goat
Biotinylated Anti-hSCGF- β	500-P99GBT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	goat
Anti-Human SDF-1 α (CXCL12)	500-P87A	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hSDF-1 α (CXCL12)	500-P87ABT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit

Antigen Affinity-Purified Polyclonal/Biotinylated Antibodies

PRODUCT DESCRIPTION	CATALOG NUMBER	SIZE A	SIZE B	PRICE PER MG	SOURCE
Anti-Murine SDF-1 α (CXCL12)	500-P164G	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	goat
Biotinylated Anti-mSDF-1 α (CXCL12)	500-P164GBT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	goat
Anti-Rat SDF-1 α (CXCL12)	500-P315	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hSDF-1 α (CXCL12)	500-P315BT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	rabbit
Anti-Human SDF-1 β (CXCL12)	500-P87BG	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	goat
Biotinylated Anti-hSDF-1 β (CXCL12)	500-P87BGBT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	goat
Anti-Murine SF-20	500-P259	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-mSF-20	500-P259BT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	rabbit
Anti-Human TACI	500-P166G	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	goat
Biotinylated Anti-hTACI	500-P166GBT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	goat
Anti-Human TARC (CCL17)	500-P97	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hTARC (CCL17)	500-P97BT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	rabbit
Anti-Human TECK (CCL25)	500-P134	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hTECK (CCL25)	500-P134BT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	rabbit
Anti-Human TFF-2	500-P312	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hTFF-2	500-P312BT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	rabbit
Anti-Human TGF- α	500-P16	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hTGF- α	500-P16BT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	rabbit
Anti-Human TGF- β 3	500-P317	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hTGF- β 3	500-P317BT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	rabbit
Anti-Human TIMP-1	500-P280	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hTIMP-1	500-P280BT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	rabbit
Anti-Human TL-1A	500-P240	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hTL-1A	500-P240BT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	rabbit
Anti-Human TNF- α	500-P31A	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hTNF- α	500-P31ABT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	rabbit
Anti-Human TNF- α	500-P31AG	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	goat
Biotinylated Anti-hTNF- α	500-P31AGBT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	goat
Anti-Murine TNF- α	500-P64	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-mTNF- α	500-P64BT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	rabbit
Anti-Murine TNF- α	500-P64G	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	goat
Biotinylated Anti-mTNF- α	500-P64GBT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	goat
Anti-Rat TNF- α	500-P72	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-rTNF- α	500-P72BT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	rabbit
Anti-Human TNF- β	500-P31B	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hTNF- β	500-P31BBT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	rabbit
Anti-Human sTNF Receptor Type I	500-P143	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hsTNF Receptor Type I	500-P143BT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	rabbit
Anti-Human sTNF Receptor Type II	500-P168	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hsTNF Receptor Type II	500-P168BT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	rabbit
Anti-Human TPO	500-P49	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hTPO	500-P49BT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	rabbit
Anti-Human TPO	500-P49G	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	goat
Biotinylated Anti-hTPO	500-P49GBT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	goat
Anti-Human sTRAIL/Apo2L	500-P135	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hsTRAIL/Apo2L	500-P135BT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	rabbit
Anti-Murine TRAIL	500-P303	50 μ g / \$195	100 μ g / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-mTRAIL	500-P303BT	25 μ g / \$195	50 μ g / \$250	1 mg / \$3,400	rabbit

Antigen Affinity-Purified Polyclonal/Biotinylated Antibodies

PRODUCT DESCRIPTION	CATALOG NUMBER	SIZE A	SIZE B	PRICE PER MG	SOURCE
Anti-Human sTRAIL Receptor-2	500-P299	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hsTRAIL Receptor-2	500-P299BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human TSLP	500-P258	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hTSLP	500-P258BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human TWEAK	500-P137G	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	goat
Biotinylated Anti-hTWEAK	500-P137GBT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	goat
Anti-Human Uteroglobin	500-P330	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hUteroglobin	500-P330BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human VAP-1	500-P326	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hVAP-1	500-P326BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human Vaspin	500-P256	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hVaspin	500-P256BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human VCAM-1	500-P300	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hVCAM-1	500-P300BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human VEGF ₁₆₅	500-P10	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hVEGF ₁₆₅	500-P10BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human VEGF ₁₆₅	500-P10G	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	goat
Biotinylated Anti-hVEGF ₁₆₅	500-P10GBT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	goat
Anti-Murine VEGF ₁₆₅	500-P131	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-mVEGF ₁₆₅	500-P131BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Rat VEGF ₁₆₅	500-P275	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-rVEGF ₁₆₅	500-P275BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human VEGF-B	500-P267	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hVEGF-B	500-P267BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human Visfatin	500-P222	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hVisfatin	500-P222BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human Wnt-1	500-P250	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hWnt-1	500-P250BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit
Anti-Human Wnt-3a	500-P251	50 µg / \$195	100 µg / \$250	1 mg / \$1,700	rabbit
Biotinylated Anti-hWnt-3a	500-P251BT	25 µg / \$195	50 µg / \$250	1 mg / \$3,400	rabbit

Control Antibodies

PeproTech's Control Antibodies are produced from the serum of goats, mice and rabbits that have not been previously immunized, and are purified by Protein G affinity chromatography, affinity chromatography, gel-filtration chromatography, ammonium sulfate precipitation, or Protein A chromatography. These Immunoglobulin products can be used as control reagents for immunoassays using the respective polyclonal and monoclonal antibodies.

PRODUCT DESCRIPTION	CATALOG NUMBER	SIZE	PRICE
Normal Goat Immunoglobulin	500-G00	1 mg	\$65
Normal Rabbit Immunoglobulin	500-P00	500 µg	\$50
Normal Mouse Immunoglobulin	500-M00	1 mg	\$65

Monoclonal Antibodies

ProteTech's monoclonal antibodies are raised against full-length recombinant antigens and have been thoroughly screened for performance in a variety of applications.

PRODUCT DESCRIPTION	CATALOG NUMBER	SIZE	PRICE	SOURCE
Anti-Human Adiponectin	500-M126	500 µg	\$150	mouse
Anti-Human BAFF	500-M64	500 µg	\$150	mouse
Anti-Human BMP-4	500-M121	500 µg	\$150	mouse
Anti-Human BMP-7	500-M123	500 µg	\$150	mouse
Anti-Human CRP	500-M50	500 µg	\$150	mouse
Anti-Human Eotaxin (CCL11)	500-M25	500 µg	\$150	mouse
Anti-Human Eotaxin-2 (CCL24)	500-M31	500 µg	\$150	mouse
Anti-Human Eotaxin-3 (CCL26)	500-M32	500 µg	\$150	mouse
Anti-Human FGF-basic	500-M38	500 µg	\$150	mouse
Anti-Human FGF-5	500-M40	500 µg	\$150	mouse
Anti-Human G-CSF	500-M37	500 µg	\$150	mouse
Anti-Human IFN-γ	500-M90	500 µg	\$150	mouse
Anti-Human IL-1β	500-M01B	500 µg	\$150	mouse
Anti-Human IL-2	500-M02	500 µg	\$150	mouse
Anti-Murine IL-2	500-M127	500 µg	\$150	rat
Anti-Rat IL-2	500-M129	500 µg	\$150	mouse
Anti-Human sIL-2 Receptor α	500-M02R	500 µg	\$150	mouse
Anti-Human IL-3	500-M03	500 µg	\$150	mouse
Anti-Human IL-4	500-M04	500 µg	\$150	mouse
Anti-Human IL-6	500-M06	500 µg	\$150	mouse
Anti-Human IL-7	500-M07	500 µg	\$150	mouse
Anti-Human IL-8 (CXCL8)	500-M08	500 µg	\$150	mouse
Anti-Human IL-10	500-M86	500 µg	\$150	mouse
Anti-Murine IL-10	500-M128	500 µg	\$150	rat
Anti-Rat IL-10	500-M130	500 µg	\$150	mouse
Anti-Human IL-11	500-M11	500 µg	\$150	mouse
Anti-Human IL-12	500-M12	500 µg	\$150	mouse
Anti-Murine IL-12	500-M59	500 µg	\$150	rat
Anti-Human IL-15	500-M15	500 µg	\$150	mouse
Anti-Human IP-10 (CXCL10)	500-M60	500 µg	\$150	mouse
Anti-Human LEC (CCL16)	500-M43	500 µg	\$150	mouse
Anti-Human Leptin	500-M27	500 µg	\$150	mouse
Anti-Human MCP-1 (CCL2)	500-M71	500 µg	\$150	mouse
Anti-Human MCP-2 (CCL8)	500-M69	500 µg	\$150	mouse
Anti-Human MCP-3 (CCL7)	500-M73	500 µg	\$150	mouse
Anti-Human MCP-4 (CCL13)	500-M70	500 µg	\$150	mouse
Anti-Human MDC (CCL22)	500-M41	500 µg	\$150	mouse
Anti-Human MIG (CXCL9)	500-M42	500 µg	\$150	mouse
Anti-Human MIP-1α (CCL3)	500-M74	500 µg	\$150	mouse
Anti-Human MIP-3α (CCL20)	500-M28	500 µg	\$150	mouse
Anti-Human MIP-3β (CCL19)	500-M29	500 µg	\$150	mouse
Anti-Human NAP-2 (CXCL7)	500-M33	500 µg	\$150	mouse
Anti-Human β-NGF	500-M85	500 µg	\$150	mouse
Anti-Human NT-4	500-M24	500 µg	\$150	mouse
Anti-Human sRANK Ligand	500-M46	500 µg	\$150	mouse
Anti-Human RANTES (CCL5)	500-M75	500 µg	\$150	mouse
Anti-Human Resistin	500-M91	500 µg	\$150	mouse
Anti-Human SCF	500-M44	500 µg	\$150	mouse
Anti-Human TECK (CCL25)	500-M48	500 µg	\$150	mouse
Anti-Human TGF-β1	500-M66	500 µg	\$150	mouse
Anti-Human TNF-α	500-M26	500 µg	\$150	mouse
Anti-Human sTRAIL/Apo2L	500-M49	500 µg	\$150	mouse
Anti-Human VEGF ₁₆₅	500-M88	500 µg	\$150	mouse

ABTS ELISA Kits

PeproTech's ABTS ELISA Development Kits contain the key components required for the quantitative measurement of natural and/or recombinant proteins in a sandwich ELISA format. Each ABTS ELISA Development Kit contains a Capture Antibody, a Biotinylated Detection Antibody, a calibrated antigen Standard, an egg white avidin-HRP conjugate, and a kit-specific protocol.

Each Standard ABTS ELISA Development Kit contains enough material to assay the target cytokine in approximately 1,000 ELISA plate wells.

PRODUCT DESCRIPTION	ABTS CATALOG NUMBER	PRICE PER KIT
Human 4-1BB Receptor.....	900-K208	\$320
Human BD-1	900-K202	\$320
Human BD-2.....	900-K172	\$320
Human BD-3.....	900-K210	\$320
Human BD-4.....	900-K435	\$320
Human Betacellulin	900-K372	\$320
Human/Murine/Rat BMP-2.....	900-K255	\$320
Human sCD40 Ligand	900-K145	\$320
Human CNTF	900-K158	\$320
Rat CNTF.....	900-K65	\$320
Human CTACK (CCL27)	900-K213	\$320
Human CTGF	900-K317	\$320
Human CXCL16	900-K230	\$320
Human EGF.....	900-K05	\$320
Murine EGF.....	900-K179	\$320
Rat EGF	900-K390	\$320
Human EG-VEGF	900-K244	\$320
Human Eotaxin (CCL11)	900-K69	\$320
Murine Eotaxin (CCL11)	900-K68	\$320
Human Eotaxin-3 (CCL26).....	900-K167	\$320
Murine Exodus-2 (CCL21)	900-K132	\$320
Human FGF-basic	900-K08	\$320
Human Follistatin	900-K299	\$320
Human G-CSF	900-K77	\$320
Murine G-CSF	900-K103	\$320
Human GM-CSF	900-K30	\$320
Murine GM-CSF	900-K55	\$320
Human GRO- α /MGSa (CXCL1).....	900-K38	\$320
Rat GRO/KC (CXCL1).....	900-K57	\$320
Human GRO- β (CXCL2).....	900-K120	\$320
Human Heregulin β -1	900-K316	\$320
Human ICAM-1.....	900-K464	\$320
Human IFN- γ	900-K27	\$320
Murine IFN- γ	900-K98	\$320
Rat IFN- γ	900-K109	\$320
Human IGF-BP1	900-K315	\$320
Murine IGF-I	900-K170	\$320
Human IL-1 α	900-K11	\$320
Murine IL-1 α	900-K82	\$320
Rat IL-1 α	900-K204	\$320
Human IL-1 β	900-K95	\$320
Murine IL-1 β	900-K47	\$320
Rat IL-1 β	900-K91	\$320
Human IL-1RA	900-K474	\$320
Human IL-2	900-K12	\$320
Murine IL-2	900-K108	\$320
Rat IL-2.....	900-K205	\$320
Human IL-3	900-K13	\$320
Murine IL-3	900-K48	\$320
Human IL-4	900-K14	\$320
Murine IL-4	900-K49	\$320
Human IL-5	900-K15	\$320

ABTS ELISA Kits

PRODUCT DESCRIPTION	ABTS CATALOG NUMBER	PRICE PER KIT
Murine IL-5	900-K406	\$320
Human IL-6	900-K16	\$320
Murine IL-6	900-K50	\$320
Rat IL-6	900-K86	\$320
Human IL-7	900-K17	\$320
Human IL-8 (CXCL8)	900-K18	\$320
Human IL-9	900-K20	\$320
Human IL-10	900-K21	\$320
Murine IL-10	900-K53	\$320
Human IL-11	900-K22	\$320
Human IL-12	900-K96	\$320
Murine IL-12	900-K97	\$320
Human IL-13	900-K23	\$320
Murine IL-13	900-K207	\$320
Murine IL-15	900-K188	\$320
Human IL-17A	900-K84	\$320
Murine IL-17A	900-K392	\$320
Human IL-17E	900-K234	\$320
Human IL-17F	900-K277	\$320
Human IL-20	900-K224	\$320
Human IL-21	900-K226	\$320
Murine IL-21	900-K368	\$320
Human IL-22	900-K246	\$320
Murine IL-22	900-K257	\$320
Human IL-31	900-K347	\$320
Human IL-33	900-K398	\$320
Human IP-10 (CXCL10)	900-K39	\$320
Murine IP-10 (CXCL10)	900-K153	\$320
Rat IP-10 (CXCL10)	900-K449	\$320
Human I-TAC (CXCL11)	900-K151	\$320
Murine JE/MCP-1 (CCL2)	900-K126	\$320
Murine KC (CXCL1)	900-K127	\$320
Human Leptin	900-K90	\$320
Murine Leptin	900-K76	\$320
Human MCP-1 (CCL2)	900-K31	\$320
Rat MCP-1 (CCL2)	900-K59	\$320
Human MCP-2 (CCL8)	900-K41	\$320
Murine MCP-3 (CCL7)	900-K123	\$320
Murine M-CSF	900-K245	\$320
Murine MDC (CCL22)	900-K197	\$320
Human MIA-2	900-K357	\$320
Human Midkine	900-K190	\$320
Human MIG (CXCL9)	900-K87	\$320
Human MIP-1 α (CCL3)	900-K35	\$320
Murine MIP-1 α (CCL3)	900-K125	\$320
Rat MIP-1 α (CCL3)	900-K75	\$320
Murine MIP-1 β (CCL4)	900-K278	\$320
Murine MIP-2 (CXCL2)	900-K152	\$320
Human NAP-2 (CXCL7)	900-K40	\$320
Human Neuroserpin	900-K412	\$320
Human β -NGF	900-K60	\$320
Human NOV	900-K338	\$320
Human PAI-1	900-K383	\$320
Human PDGF-BB	900-K04	\$320
Human PIGF-1	900-K307	\$320
Human sRANK Ligand	900-K142	\$320
Murine sRANK Ligand	900-K233	\$320
Human RANTES (CCL5)	900-K33	\$320
Murine RANTES (CCL5)	900-K124	\$320

ABTS ELISA Kits

PRODUCT DESCRIPTION	ABTS CATALOG NUMBER	PRICE PER KIT
Rat RANTES (CCL5)	900-K72	\$320
Human Resistin	900-K235	\$320
Human SCF	900-K34	\$320
Murine SCF	900-K78	\$320
Rat SCF	900-K258	\$320
Human SDF-1 α (CXCL12)	900-K92	\$320
Human TACI	900-K216	\$320
Human TIMP-1	900-K438	\$320
Human TL-1A	900-K290	\$320
Human TNF- α	900-K25	\$320
Murine TNF- α	900-K54	\$320
Rat TNF- α	900-K73	\$320
Human TPO	900-K44	\$320
Human sTRAIL/Apo2L	900-K141	\$320
Human TSLP	900-K334	\$320
Human TWEAK	900-K149	\$320
Human VEGF ₁₆₅	900-K10	\$320
Murine VEGF ₁₆₅	900-K99	\$320
Rat VEGF ₁₆₅	900-K436	\$320

TMB ELISA Kits

ProteTech's TMB ELISA Development Kits contain the key components required for the quantitative measurement of natural and/or recombinant proteins in a sandwich ELISA format. Each TMB ELISA Development Kit contains a Capture Antibody, a Biotinylated Detection Antibody, a calibrated antigen Standard, a Streptavidin-HRP conjugate, and a kit-specific protocol.

Each Standard TMB ELISA Development Kit contains enough material to assay the target cytokine in approximately 1,000 ELISA plate wells.

PRODUCT DESCRIPTION	TMB CATALOG NUMBER	PRICE PER KIT
Human BD-2	900-T172	\$320
Human/Murine/Rat BMP-2	900-T255	\$320
Human IFN- γ	900-T27	\$320
Murine IFN- γ	900-T98	\$320
Human IL-1 α	900-T11	\$320
Human IL-1 β	900-T95	\$320
Human IL-2	900-T12	\$320
Murine IL-2	900-T108	\$320
Human IL-4	900-T14	\$320
Murine IL-4	900-T49	\$320
Human IL-6	900-T16	\$320
Murine IL-6	900-T50	\$320
Human IL-8 (CXCL8)	900-T18	\$320
Murine IL-10	900-T53	\$320
Human IL-12	900-T96	\$320
Murine IL-12	900-T97	\$320
Human IL-17E	900-T234	\$320
Human IP-10 (CXCL10)	900-T39	\$320
Human MCP-1 (CCL2)	900-T31	\$320
Human MIP-1 β (CCL4)	900-T36	\$320
Human SCF	900-T34	\$320
Human TNF- α	900-T25	\$320
Murine TNF- α	900-T54	\$320
Rat TNF- α	900-T73	\$320
Human VEGF ₁₆₅	900-T10	\$320

Mini ABTS ELISA Kits

PeptoTech's Mini ABTS ELISA Development Kits contain the key components required for the quantitative measurement of natural and/or recombinant proteins in a sandwich ELISA format. Each Mini ABTS ELISA Development Kit contains a Capture Antibody, a Biotinylated Detection Antibody, a calibrated antigen Standard, an egg white avidin-HRP conjugate, and a kit-specific protocol.

Each Mini ABTS ELISA Development Kit contains enough material to assay the target cytokine in approximately 200 ELISA plate wells.

PRODUCT DESCRIPTION	ABTS CATALOG NUMBER	PRICE PER KIT
Human BD-1	900-M202	\$100
Human BD-2	900-M172	\$100
Human BD-3	900-M210	\$100
Human BD-4	900-M435	\$100
Human/Murine/Rat BMP-2	900-M255	\$100
Human sCD40 Ligand	900-M145	\$100
Rat CNTF	900-M65	\$100
Human CTACK (CCL27)	900-M213	\$100
Human CTGF	900-M317	\$100
Human CXCL16	900-M230	\$100
Human EGF	900-M05	\$100
Rat EGF	900-M390	\$100
Human Eotaxin-3 (CCL26)	900-M167	\$100
Murine Exodus-2 (CCL21)	900-M132	\$100
Human FGF-basic	900-M08	\$100
Human G-CSF	900-M77	\$100
Murine G-CSF	900-M103	\$100
Human GM-CSF	900-M30	\$100
Murine GM-CSF	900-M55	\$100
Human GRO- α /MGSA (CXCL1)	900-M38	\$100
Human GRO- β (CXCL2)	900-M120	\$100
Human Heregulin β -1	900-M316	\$100
Human ICAM-1	900-M464	\$100
Human IFN- γ	900-M27	\$100
Murine IFN- γ	900-M98	\$100
Rat IFN- γ	900-M109	\$100
Human IGF-BP1	900-M315	\$100
Murine IGF-I	900-M170	\$100
Human IL-1 α	900-M11	\$100
Murine IL-1 α	900-M82	\$100
Human IL-1 β	900-M95	\$100
Murine IL-1 β	900-M47	\$100
Rat IL-1 β	900-M91	\$100
Human IL-1RA	900-M474	\$100
Human IL-2	900-M12	\$100
Murine IL-2	900-M108	\$100
Rat IL-2	900-M205	\$100
Murine IL-3	900-M48	\$100
Human IL-4	900-M14	\$100
Murine IL-4	900-M49	\$100
Human IL-5	900-M15	\$100
Murine IL-5	900-M406	\$100
Human IL-6	900-M16	\$100
Murine IL-6	900-M50	\$100
Rat IL-6	900-M86	\$100
Human IL-7	900-M17	\$100
Human IL-8 (CXCL8)	900-M18	\$100
Human IL-10	900-M21	\$100
Murine IL-10	900-M53	\$100
Human IL-11	900-M22	\$100

Mini ABTS ELISA Kits

PRODUCT DESCRIPTION	ABTS CATALOG NUMBER	PRICE PER KIT
Human IL-12	900-M96	\$100
Murine IL-12	900-M97	\$100
Human IL-13	900-M23	\$100
Murine IL-13	900-M207	\$100
Murine IL-15	900-M188	\$100
Human IL-17A	900-M84	\$100
Murine IL-17A	900-M392	\$100
Human IL-17E	900-M234	\$100
Murine IL-21	900-M368	\$100
Human IL-22	900-M246	\$100
Murine IL-22	900-M257	\$100
Human IL-31	900-M347	\$100
Human IL-33	900-M398	\$100
Human IP-10 (CXCL10)	900-M39	\$100
Murine IP-10 (CXCL10)	900-M153	\$100
Rat IP-10 (CXCL10)	900-M449	\$100
Murine JE/MCP-1 (CCL2)	900-M126	\$100
Murine KC (CXCL1)	900-M127	\$100
Human Leptin	900-M90	\$100
Human MCP-1 (CCL2)	900-M31	\$100
Rat MCP-1 (CCL2)	900-M59	\$100
Human MCP-2 (CCL8)	900-M41	\$100
Murine M-CSF	900-M245	\$100
Human Midkine	900-M190	\$100
Human MIG (CXCL9)	900-M87	\$100
Human MIP-1 α (CCL3)	900-M35	\$100
Murine MIP-1 α (CCL3)	900-M125	\$100
Murine MIP-1 β (CCL4)	900-M278	\$100
Murine MIP-2 (CXCL2)	900-M152	\$100
Human Neuroserpin	900-M412	\$100
Human β -NGF	900-M60	\$100
Human PDGF-BB	900-M04	\$100
Human sRANK Ligand	900-M142	\$100
Murine sRANK Ligand	900-M233	\$100
Human RANTES (CCL5)	900-M33	\$100
Murine RANTES (CCL5)	900-M124	\$100
Rat RANTES (CCL5)	900-M72	\$100
Human Resistin	900-M235	\$100
Human SCF	900-M34	\$100
Rat SCF	900-M258	\$100
Human SDF-1 α (CXCL12)	900-M92	\$100
Human TIMP-1	900-M438	\$100
Human TL-1A	900-M290	\$100
Human TNF- α	900-M25	\$100
Murine TNF- α	900-M54	\$100
Rat TNF- α	900-M73	\$100
Human TPO	900-M44	\$100
Human sTRAIL/Apo2L	900-M141	\$100
Human VEGF ₁₆₅	900-M10	\$100
Murine VEGF ₁₆₅	900-M99	\$100
Rat VEGF ₁₆₅	900-M436	\$100

Mini TMB ELISA Kits

PeptoTech's Mini TMB ELISA Development Kits contain the key components required for the quantitative measurement of natural and/or recombinant proteins in a sandwich ELISA format. Each Mini TMB ELISA Development Kit contains a Capture Antibody, a Biotinylated Detection Antibody, a calibrated antigen Standard, a Streptavidin-HRP conjugate, and a kit-specific protocol.

Each Mini TMB ELISA Development Kit contains enough material to assay the target cytokine in approximately 200 ELISA plate wells.

PRODUCT DESCRIPTION	TMB CATALOG NUMBER	PRICE PER KIT
Human BD-2	900-TM172.....	\$100
Human/Murine/Rat BMP-2.....	900-TM255.....	\$100
Human IFN- γ	900-TM27.....	\$100
Murine IFN- γ	900-TM98.....	\$100
Human IL-1 α	900-TM11.....	\$100
Human IL-1 β	900-TM95.....	\$100
Human IL-2.....	900-TM12.....	\$100
Murine IL-2.....	900-TM108	\$100
Human IL-4.....	900-TM14.....	\$100
Murine IL-4	900-TM49.....	\$100
Human IL-6.....	900-TM16.....	\$100
Murine IL-6.....	900-TM50	\$100
Human IL-8 (CXCL8).....	900-TM18.....	\$100
Murine IL-10.....	900-TM53.....	\$100
Human IL-12.....	900-TM96.....	\$100
Murine IL-12.....	900-TM97.....	\$100
Human IL-17E.....	900-TM234.....	\$100
Human IP-10 (CXCL10).....	900-TM39.....	\$100
Human MCP-1 (CCL2).....	900-TM31.....	\$100
Human MIP-1 β (CCL4)	900-TM36.....	\$100
Human SCF.....	900-TM34.....	\$100
Human TNF- α	900-TM25.....	\$100
Murine TNF- α	900-TM54.....	\$100
Rat TNF- α	900-TM73	\$100
Human VEGF ₁₆₅	900-TM10.....	\$100

ELISA Buffer Kits

PeproTech's ELISA Buffer Kits

PeproTech offers both an ABTS ELISA Buffer Kit and a TMB ELISA Buffer Kit that have been specifically formulated for optimal performance when used in conjunction with PeproTech's ABTS ELISA Development Kits and TMB ELISA Development Kits, respectively. These buffer kits contain all of the necessary components to assay ten 96-well ELISA plates (included) and contain detailed handling instructions. All of the reagents have been sterile-filtered to minimize assay interference and maximize shelf life. These easy-to-use ELISA Buffer Kits can also be purchased as stand-alone products since the plates included are not pre-coated with capture antibody. This format allows the researcher to develop and optimize an assay for use with their own capture and detection antibodies. The actual antibody concentrations and detection ranges of the ELISA will vary.



These easy-to-use ELISA Buffer Kits can also be purchased as stand-alone products since the plates included are not pre-coated with capture antibody. This format allows the researcher to develop and optimize an assay for use with their own capture and detection antibodies. The actual antibody concentrations and detection ranges of the ELISA will vary.

ABTS ELISA Buffer Kit Contents:

- 20X Plate Coating Buffer (PBS)
- 1X Blocking Buffer
- 20X Sample Diluent
- 20X Wash Buffer
- Ready-to-use ABTS Liquid Substrate
- 10 Sterile, Uncoated 96-well ELISA Plates
- 50 Plate Sealing Films
- Buffer Handling Instructions

DESCRIPTION	CATALOG NUMBER	PRICE
ABTS ELISA Buffer Kit.....	900-K00	\$195

TMB ELISA Buffer Kit Contents:

- 20X Plate Coating Buffer (PBS)
- 1X Blocking Buffer
- 20X Sample Diluent
- 20X Wash Buffer
- Ready-to-use TMB Liquid Substrate
- Ready-to-use Stop Solution
- 10 Sterile, Uncoated 96-well ELISA Plates
- 50 Plate Sealing Films
- Buffer Handling Instructions

DESCRIPTION	CATALOG NUMBER	PRICE
TMB ELISA Buffer Kit	900-T00	\$195

ELISA KITS

QC Testing Requirements

GMP

PeproTech ensures that all aspects of our quality management system - from management of raw materials and equipment to facilities maintenance (environmental monitoring), manufacturing processes, internal audits and inspection processes - are in compliance with relevant US FDA GMPs and all applicable regulatory and standards requirements.

We perform extensive quality control tests to verify that PeproGMP® Cytokines meet rigorous standards for purity, identity, safety, activity and consistency.

Identity and purity

- N-terminal amino acid sequence analysis
- Molecular weight determination by mass spectrometry
- Reversed-phase HPLC analysis
- SDS-PAGE with Western blotting

Protein Content

- UV spectroscopy
- SDS-PAGE with Western blotting (if applicable)

Safety

- Residual *E.coli* DNA testing
- Sterility: beginning, middle and end processes
- Low endotoxin
- Mycoplasma

Biological Activity

- Specific activity determined by product-specific *in vitro* bioassay, against reference standard and (when applicable) against WHO standards

Documentation

- Certificate of Analysis
- Certificate of Origin
- Safety Data Sheet (SDS)

RUO Cytokines

PeproTech's RUO cytokines are subject to a rigorous set of quality control standards. Our Quality Assurance department ensures that the cytokines demonstrate consistent molecular weights, N-terminal sequences, purity and biological activity. This quality control is devoted to providing consistency between lots and the following qualities:

Authenticity

RUO cytokine products are verified by N-terminal sequence analysis, SDS-PAGE, Mass Spectrometry and, where possible, by RP-HPLC, and Western Blot analyses versus standards.

Biological Activity

Determined in the relevant bioassay.

Endotoxin Contamination

Tested by kinetic LAL (Limulus Amebocyte Lysate).

Protein Content

Verified by UV spectroscopy, SDS-PAGE and, where possible, by RP-HPLC.

Purity

Verified by SDS-PAGE and, where possible, by RP-HPLC.

Sterility

All products are sterile filtered through a 0.2 micron filter.

QC Testing Requirements

Antibody & ELISA Development Kits

PeproTech's Antibodies (Monoclonal, Polyclonal, and Biotinylated) and ELISA Development Kits are screened for performance and quality in a variety of applications.

Antibody Content

Verified by UV Spectroscopy and SDS-PAGE.

ELISA

Tested by Enzyme Linked Immunosorbent Assay (ELISA) for antibody-antigen detection and quantification of the antigen, using a solid-phase substrate such as a polystyrene plate, enzyme-coupled reagents, and additional detection materials. Extensive optimization and cross-reactivity testing is performed for ELISA Development Kit (EDK) products.

Endotoxin Contamination

Tested by kinetic LAL (Limulus Amebocyte Lysate).

Immunohistochemistry (IHC) (if applicable)

Tested with an immunocoloring assay (immunoenzymatic or immunofluorescent) for specific antibody-antigen recognition in a tissue or cell sample, using an enzyme-coupled reagent and other detection materials.

Neutralization (if applicable)

Tested to determine the antibody concentration required for a half-maximal inhibition [ND_{50}] of the biological activity of the corresponding antigen.

Sterility

All products are sterile filtered through a 0.2 μ m filter.

Western Blot

Tested by an immunoblot assay for antibody-antigen detection and quantification, using SDS-PAGE, nitrocellulose membrane transfer, an enzyme-coupled reagent, and other detection materials.

FACs Testing (if applicable)

Fluorescence-activated cell sorting (FACS), also referred to as fluorescence-assisted cell sorting, is a specialized type of flow cytometry that utilizes fluorescent markers to identify and separate cell groups from a heterogenous mixture.

Media

A comprehensive line of cell culture media products engineered by PeproTech and collaborators to offer high-quality options to support your culturing needs. Manufactured in state-of-the-art cell culture laboratories, these media products are designed around our high-quality recombinant growth factors and demonstrate comparable, if not superior, performance against other media products on the market.

Mycoplasma

Detection of Agar-Cultivable and Non-Cultivable Mycoplasma.

Performance

Determined by relevant cell-based assays.

Endotoxin Contamination

Tested by kinetic LAL (Limulus Amebocyte Lysate).

Osmolarity

Confirmation of osmolar concentration as tested by a single-read osmometer to ensure proper formulation and stability.

Sterility

Sterility testing by USP standards.

Chemokine Nomenclature

Systematic Name CXC Chemokines	Functional Name(s) (mouse protein)	Responding Cell Type(s) (mouse protein)	Known Receptor(s)
CXC Chemokines			
CXCL1	GRO1, GRO- α , MGSA, NAP-3 (KC)	PMN	CXCR1, CXCR2
CXCL2	GRO2, GRO- β , MIP2- α (MIP-2)	PMN	CXCR1, CXCR2
CXCL3	GRO3, GRO- γ , MIP2- β (DCIP-1)	PMN	CXCR2
CXCL4	PF-4, Oncostatin-A	PMN, Mo	CXCR3B
CXCL5	ENA-78	PMN	CXCR2
CXCL6	GCP-2, CKA-3 (LIX)	PMN	CXCR1, CXCR2
CXCL7	NAP-2, PBP, LDGF, MDGF	PMN	CXCR1, CXCR2
CXCL8	IL-8, GCP-1, NAP-1	PMN, Bs	CXCR1, CXCR2
CXCL9	MIG	actT [Th1], NK	CXCR3
CXCL10	IP-10 (CRG-2)	Mo, actT [Th1], NK	CXCR3
CXCL11	I-TAC, IP-9	actT [Th1], NK	CXCR3, CXCR7
CXCL12	SDF-1, SDF-1 α/β , PBSF	All cell types	CXCR4, CXCR7
CXCL13	BCA-1, BLC	B, (Mo)	CXCR5
CXCL14	BRAK, MIP-2G	PMN, mDC (B, Mo)	unknown
CXCL15	(Lungkine)	(PMN)	unknown
CXCL16	SR-PSOX	actT	CXCR6
CXCL17	VEGF co-regulated chemokine 1, DMC	Mo, iDC	unknown
C Chemokines			
XCL1	Lymphotactin, ATAC, SCM-1	Tr	XCR1
XCL2	SCM-1 β	Tr	XCR1
CX3C Chemokines			
CX3CL1	Fractalkine, Neurotactin, CX3C	Mo, actT, NK	CX3CR1
CC Chemokines			
CCL1	I-309 (TCA-3)	iDC, actT [Th2], Mo (PMN)	CCR8
CCL2	MCP-1, MCAF, JE	Bs, Mo, actT, NK, iDC	CCR2, CCR4
CCL3	MIP-1 α , LD78 α	Eo, Mo, actT, NK, iDC (PMN)	CCR1, CCR4, CCR5
CCL3L1	LD78 β	Mo, actT, B	CCR1, CCR3, CCR5
CCL4	MIP-1 β , LAG-1	Mo, actT [Th1], NK, iDC	CCR5
CCL4L1	LAG-1 gene duplication	Mo	CCR1, CCR5
CCL5	RANTES	Eo, Bs, Mo, actT, NK, iDC, Tm	CCR1, CCR3, CCR4, CCR5
CCL6	(C-10)	(Mo)	CCR1
CCL7	MCP-3 (FIC)	Eo, Bs, Mo, actT, NK, iDC	CCR1, CCR2, CCR3
CCL8	MCP-2	Eo, Bs, Mo, actT, NK, iDC	CCR1, CCR2B, CCR3, CCR5
CCL9/10	(MIP-1 γ , MRP-2)	(PMN, actT)	CCR1
CCL11	Eotaxin	Eo, Bs, actT [Th2], iDC	CCR3
CCL12	(MCP-5)	(Eo, Bs, Mo, actT, NK, iDC)	CCR2
CCL13	MCP-4, CK β -10	Eo, Bs, Mo, actT, NK, iDC	CCR1, CCR2, CCR3
CCL14	HCC-1	Eo, Mo, T	CCR1, CCR3, CCR5
CCL15	MIP-5, MIP-1 δ , HCC-2, LKN-1	Mo, T	CCR1, CCR3
CCL16	LEC, HCC-4	Mo, actT [Th1]	CCR1
CCL17	TARC (ABCD-2)	actT [Th2]	CCR4
CCL18	MIP-4, DC-CK1, PARC, AMAC-1	Tr, iDC	unknown
CCL19	MIP-3 β , ELC, Exodus-3, CK β -11	Tr, actT, mDC	CCR7
CCL20	MIP-3 α , LARC, Exodus-1	Tm, B, iDC, PMN	CCR6
CCL21	Exodus-2, 6Ckine, SLC	Tr, actT, mDC	CCR7
CCL22	MDC, STCP-1 (ABCD-1)	Mo, actT [Th2], NK, iDC	CCR4
CCL23	MIP-3, MPIF-1, CK β -8	PMN, Mo, Tr	CCR1
CCL24	Eotaxin-2, MPIF-2, CK β -6	Eo, Bs, actT [Th2], iDC, PMN, Tr	CCR3
CCL25	TECK	Thymocytes, Tr, iDC	CCR9
CCL26	MIP-4 α , Eotaxin-3	Eo, Bs, actT [Th2], iDC	CCR3
CCL27	CTACK, ILC, Eskine	actT	CCR10
CCL28	MEC	actT, Tr, Eo	CCR3, CCR10

KEY
Tm = memory T cells
B = B-cells
actT = activated T cell
Bs = Basophil
Tr = resting T cell
T = T cells
Eo = Eosinophil
NK = Natural Killer cells
Mo = monocyte
PMN = neutrophils
mDC = mature dendritic cells
iDC = immature dendritic cells

FGF Family

Fibroblast Growth Factors	Target Cells (Partial list)	Receptors	Function (Partial list)
FGF1 (Acidic FGF) Heparin-Binding Growth Factor-1 (HBGF-1) ECGF-beta (Endothelial Cell Growth Factor-beta)	mesenchymal, neuroectodermal endothelial cells	all FGF receptors	Angiogenic <i>in vivo</i> , mitogenic <i>in vitro</i> , wound healing
FGF2 (Basic FGF) Heparin-Binding Growth Factor-2 (HBGF-2) Prostatropin	mesenchymal, neuroectodermal endothelial cells	1b, 1c, 2c, 3c, 4	Vasculogenesis, wound healing, angiogenesis, hematopoiesis, neuron survival
FGF3 int-2	epithelial cells that express FGF receptor 2b	2b	Mesoderm induction, angiogenesis, inner ear development
FGF4 Heparin Secretory Transforming protein (HST-1) Transforming protein KS3 Heparin-Binding Growth Factor-4 (HBGF-4)	cells that express FGF receptors	1c, 2c, 3c, 4	Angiogenesis, vertebrate limb development and development of stomach cancer
FGF5 Heparin-Binding Growth Factor-5 (HBGF-5), Smag-82	cells that express FGF receptors	1c, 2c	Hair growth and development
FGF6 Heparin-Binding Growth Factor-6 (HBGF-6) HST-2	cells that express FGF receptors	1c, 2c, 4	Skeletal muscle development
FGF7/KGF (Keratinocyte Growth Factor) Heparin-Binding Growth Factor-7 (HBGF-7)	keratinocytes and epithelial cells that express FGF receptor 2b	2b	Keratinocyte growth factor, kidney and lung development, angiogenesis and wound healing
FGF8 Androgen-Induced Growth Factor (AIGF), Heparin-Binding Growth Factor-8 (HBGF-8)	mammary carcinoma cells and other cells that express FGF receptors	2c, 3c, 4 (possibly 1c)	Limb, central nervous system, cardiac outflow tract development
FGF9 Glia Activating Factor (GAF) Heparin-Binding Growth Factor-9 (HBGF-9)	glial cells, astrocyte cells and other cells that express FGF receptors	1c, 2c, 3b, 3c, 4	Glia-activating factor, motor neuron survival, lung and testes development
FGF10 FGFA Keratinocyte growth factor-2	epithelial cells that express FGF receptor 2b	2b	Wound healing, multi-organ including limb and lung development
FGF11 FGFB Fibroblast growth factor Homologous Factor-3 (FHF-3)	nuclear processes unrelated to the secreted FGFs	none	Appears to be involved in nervous system development and function
FGF12 FGFC Fibroblast growth factor Homologous Factor-1 (FHF-1)	nuclear processes unrelated to the secreted FGFs	none	Appears to be involved in nervous system development and function
FGF13 FGFD Fibroblast growth factor Homologous Factor-2 (FHF-2)	nuclear processes unrelated to the secreted FGFs	none	Appears to be involved in nervous system development and function
FGF14 FGFE Fibroblast growth factor Homologous Factor-4 (FHF-4)	nuclear processes unrelated to the secreted FGFs	none	Regulates central nervous system development and function
FGF15 FGFF, identified in mouse not human	cells that express FGF receptor 4	4	Regulator of cell division and patterning in specific regions of embryonic brain, spinal cord and sensory organs
FGF16 FGFG	cells that express FGF receptors	2c, 3c	Central nervous system development
FGF17 FGFH	cells that express FGF receptors	1c, 2c, 3c, 4	Signals induction and patterning of embryonic brain
FGF18 zFGF5 FGFI	cells that express FGF receptors	1c, 2c, 3c, 4	An essential regulator of long bone and calvarial development
FGF19 FGFJ, identified in human not mouse	cells that express FGF receptor 4	4	Expressed during brain development and during embryogenesis, regulates multiple metabolic processes in adulthood
FGF20 FGFK	epithelial and mesenchymal cells	1c, 2c, 3c	Expressed during limb and brain development
FGF21 FGFL	unknown at the time of printing	unknown at the time of printing	Expressed in liver and thymus, may play a role in Type 2 Diabetes
FGF22 FGFM	hair follicle keratinocytes	unknown at the time of printing	May be involved in cutaneous development and repair, and hair development
FGF23 FGFN	renal proxima epithelial cells	3c	Expressed in brain and thymus, regulates phosphate homeostasis, mutant in hypophosphatemic rickets, regulates multiple metabolic processes in adulthood

TGF- β Superfamily

Name	Synonyms	Main Function	Natural Antagonists/ Binding Proteins
TGF- β_1	Differentiation inhibiting factor, cartilage-inducing factor	Regulates cell proliferation, growth, differentiation and motility. Involved in adipogenesis, chondrogenesis, embryogenesis, tissue remodeling, wound healing and tumor formation.	Follistatin, Follistatin-Like Related Gene (FLRG), Decorin, alpha-2 macroglobulin
TGF- β_2	Glioblastoma-derived T-cell suppressor factor, BSC-1, Cetermin, Polyergin	Regulates cell proliferation, growth, differentiation and motility. Involved in adipogenesis, chondrogenesis, embryogenesis, tissue remodeling, wound healing and tumor formation.	Decorin, alpha-2 macroglobulin
TGF- β_3	None	Regulates cell proliferation, growth, differentiation and motility. Involved in adipogenesis, chondrogenesis, embryogenesis, tissue remodeling, wound healing and tumor formation.	
TGF- β_4	Endometrial Bleeding Associated Factor beta-4, (EBAF) Lefty preproprotein, LEFTA	Essential for left-right (L-R) asymmetry determination of organ systems. Possible role in endometrial bleeding.	
Inhibin A	Inhibin alpha & beta A	Inhibits secretion of follitropin by the pituitary gland, regulates embryogenesis, osteogenesis, hematopoiesis, reproductive physiology and hormone secretion from the hypothalamic, pituitary and gonadal glands.	
Inhibin B	Inhibin alpha & beta B	Inhibits secretion of follitropin by the pituitary gland, regulates embryogenesis, osteogenesis, hematopoiesis, reproductive physiology and hormone secretion from the hypothalamic, pituitary and gonadal glands.	
Activin A	Activin beta-A, Inhibin beta-1, FRP (Follicle-stimulating hormone-Releasing Protein), FSH-releasing extra protein, FSH-releasing factor, EDF (Erythroid Differentiation Factor)	Regulates embryogenesis, osteogenesis, hematopoiesis, reproductive physiology and hormone secretion from the hypothalamic, pituitary and gonadal glands.	Follistatin, Follistatin-Like Related Gene (FLRG), GASP-1, Cerberus, alpha2 macroglobulin, DAN
Activin AB	Activin beta A & beta B	Regulates embryogenesis, osteogenesis, hematopoiesis, reproductive physiology and hormone secretion from the hypothalamic, pituitary and gonadal glands.	
Activin B	Activin beta-B, Inhibin beta-2	Regulates embryogenesis, osteogenesis, hematopoiesis, reproductive physiology and hormone secretion from the hypothalamic, pituitary and gonadal glands.	
Activin C	Activin beta-C, Inhibin beta-C, blastocyst B1	Regulates embryogenesis, osteogenesis, hematopoiesis, reproductive physiology and hormone secretion from the hypothalamic, pituitary and gonadal glands.	
Activin E	Activin beta-E, Inhibin beta-E	Regulates embryogenesis, osteogenesis, hematopoiesis, reproductive physiology and hormone secretion from the hypothalamic, pituitary and gonadal glands.	
BMP-2	BMP-2A	Induces cartilage and bone formation, plays a role in cardiac morphogenesis.	Noggin, Chordin, Follistatin, Follistatin-Like Related Gene (FLRG), GASP-1, DAN, Cerberus, Gremlin
BMP-3	Osteogenin, BMP-3A	Induces cartilage and bone formation.	
BMP-3B	GDF-10	Biological function unknown, but may play a role in differentiation of osteoblasts, augmenting BMP-2 activity.	
BMP-4	BMP2B (BMP2B1, BMP2B2, Bmp2-rs1), DVR4	Induces cartilage and bone formation, involved in mesoderm induction, tooth development, limb formation and fracture repair.	Noggin, Chordin, Chordin-like/Neuralin/Ventropin, Follistatin, DAN, Cerberus, Gremlin
BMP-5	None	Induces cartilage and bone formation.	Noggin, Chordin-like/Neuralin/Ventropin, Sclerostin/SOST
BMP-6	VGR, Vg-1-related protein	Induces cartilage and bone formation.	Noggin, Chordin-like/Neuralin/Ventropin, Follistatin, Follistatin-Like Related Gene (FLRG), Sclerostin/SOST
BMP-7	OP-1 (Osteogenic Protein-1)	Induces cartilage and bone formation, involved in calcium regulation and bone homeostasis. May act as an osteoinductive factor responsible for epithelial osteogenesis.	Noggin, Chordin, Follistatin-Like Related Gene (FLRG), DAN, Cerberus, Sclerostin/SOST
BMP-8	BMP-8a, OP-2 (Osteogenic Protein-2)	Induces cartilage and bone formation, involved in calcium regulation and bone homeostasis. May act as an osteoinductive factor responsible for epithelial osteogenesis.	
BMP-8b	OP-2 (Osteogenic Protein-2)	Stimulates cartilage and bone formation, implicated in calcium regulation and bone homeostasis.	
BMP-9	GDF-2	May be involved in bone formation, regulates blood glucose homeostasis, potential autocrine/paracrine mediator in the hepatic reticuloendothelial system, involved in chondrogenesis.	

Continued...

TGF- β Superfamily Continued...

Name	Synonyms	Main Function	Natural Antagonists/ Binding Proteins
BMP-10	None	Plays a crucial role in trabeculation of the embryonic heart.	
BMP-11	GDF-11	Involved in the patterning of both mesodermal and neural tissues and in establishing the skeletal muscle. Acts globally to specific positional identity along the anterior/posterior axis.	Follistatin, Follistatin-like related gene (FLRG), GASP-1
BMP-12	GDF-7, CDMP-3	Induces the formation of tendon and ligament tissues.	
BMP-13	GDF-6, CDMP-2	Plays a role in cartilage homeostasis, involved in embryonic skeletal development, and formation of a tendon-like tissue.	Noggin
BMP-14	GDF-5, CDMP-1	Essential for limb cartilage and limb-joint formation in developing mice. Involved in embryonic skeletal development.	Noggin, DAN
BMP-15	GDF-9B	An oocyte-specific factor that regulates granulosa cell proliferation and differentiation, and is essential for normal follicular growth.	
GDF-1	Embryonic growth/ differentiation factor	May be involved in mediating cell differentiation events during embryonic development.	
GDF-2	BMP-9	Implicated in bone formation.	
GDF-3	Vgr-2	Embryonal carcinoma stem cell-associated marker <i>in vitro</i> and <i>in vivo</i> .	
GDF-5	CDMP-1, BMP-14	Essential for limb cartilage and limb-joint formation in developing mice. Involved in embryonic skeletal development.	Noggin, DAN
GDF-6	BMP-13, CDMP-2	Plays a role in cartilage homeostasis involved in embryonic skeletal development and formation of a tendon-like tissue.	Noggin
GDF-7	BMP-12, CDMP-3	Induces the formation of tendon and ligament tissues.	
GDF-8	Myostatin	Regulates skeletal muscle mass.	Follistatin, Follistatin-Like Related Gene (FLRG), GASP-1
GDF-9	None	Essential for normal follicular growth.	
GDF-10	BMP-3B, BIP (Bone Inducing Protein)	Biological function unknown, but may play a role in differentiation of osteoblasts, augmenting BMP-2 activity.	
GDF-11	BMP-11	Involved in the patterning of both mesodermal and neural tissues and in establishing the skeletal muscle. Acts globally to specific positional identity along the anterior/posterior axis.	Follistatin, Follistatin-Like Related Gene (FLRG), GASP-1
GDF-15	PLAB, Placental TGF β , Prostate Differentiation Factor (PDF), NRG-1, MIC-1 (Macrophage Inhibiting Cytokine-1)	Possible mediator of placental control of embryonic development, may act as an autocrine regulatory molecule.	
GDNF	ATF (Astrocyte-derived Trophic Factor)	Promotes dopamine uptake and survival and morphological differentiation of midbrain neurons.	
Artemin	ART, ARTN, Enovin, Neublastin	Supports the survival of all peripheral ganglia such as sympathetic, neural crest and placodally-derived sensory neurons, and dopaminergic midbrain neurons.	
Neurturin	NTN, NRTN	Promotes the development and survival of sympathetic and sensory neurons.	
Persephin	PSP, PSPN	Promotes the survival of ventral midbrain dopaminergic neurons and motor neurons, and promotes ureteric bud branching.	
LEFTY-1	LEFTYB, Protein Lefty B	Essential for left-right (L-R) asymmetry of organ systems.	
LEFTY-2	LEFTYA, TGF- β_4 , Protein Lefty A	Essential for left-right (L-R) asymmetry of organ systems.	
AMH (<i>anti-Muellerian Hormone</i>)	MIS, Muellerian inhibiting substance	Causes regression of the Muellerian duct, inhibits the growth of tumors derived from tissues of Muellerian duct origin.	
Dorsalin (<i>chick</i>)	Dorsalin-1, DSL-1	Regulates cell differentiation within neural tube.	
NODAL	None	Essential for mesoderm formation and subsequent organization of axial structures.	Cerberus

Neurotrophin/Neuropoietic Cytokines

Functional Name	Synonyms	Main Neurotrophic Functions (Partial List)	Disease/Disorder Relation (Partial List)	Receptors
β-NGF (beta-Nerve Growth Factor)	NGF-β	Supports survival and maintenance of neurons in the sensory and sympathetic nervous systems	Alzheimer's, Parkinson's, diabetic peripheral neuropathy, cardiovascular diseases	LNGFR, gp140/trk, p75NTR
BDNF (Brain Derived Neurotrophic Factor)	Abrineurin	Supports survival and maintenance of neurons in the central nervous system and peripheral nervous systems	Parkinson's, diabetic peripheral neuropathy, ALS, Huntington's	LNGFR, gp145/trkB, p75NTR
NNT-1/BCSF-3 (Novel Neurotrophin-1/ B-Cell Stimulating Factor-3)	Cardiotrophin-like cytokine (CLCF1)	Supports survival of motor and sympathetic neurons in chick embryos	Multifocal neuronal hypoplasia, neurodegenerative eye diseases (glaucoma), CISS (cold-induced sweating syndrome)	LIFR-β, gp130
NT-3 (Neurotrophin-3)	NGF-2, HGNF	Promotes growth and survival of new and existing neurons	Diabetic peripheral neuropathy, periodontal diseases	Trk, TrkB, TrkC, p75NTR
NT-4 (Neurotrophin-4)	NT-4/NT-5	Promotes survival of peripheral sensory sympathetic neurons	Huntington's, glaucoma	TrkB, p75NTR
GDNF (Glial-Derived Neurotrophic Factor)	ATF-1	Promotes dopamine uptake, survival and morphological differentiation of midbrain neurons	Parkinson's, ALS, Huntington's	RET/GFR1α-4α
MANF (Mesencephalic Astrocyte-Derived Neurotrophic Factor)	ARMET, Arginine-Rich Protein (ARP)	Promotes survival, growth and function of dopamine-specific neurons	Parkinson's, cancer	Unknown at time of printing
CDNF (Cerebral Dopamine Neurotrophic Factor)	ARMETL1	Promotes survival, growth and function of dopamine-specific neurons	Parkinson's	Unknown at time of printing
CNTF (Ciliary Neurotrophic Factor)	None	Promotes survival of ciliary neurons, primary sensory neurons, motor neurons, basal forebrain neurons, and type 2 astrocytes	ALS, Huntington's	CNTFR-α
IL-6 (Interleukin-6)	26 kDa protein, IFN-β2, B-cell Differentiation Factor (BCDF), BSF-2, HPGF, HSF, MGI-2	Involved in inflammation associated with Alzheimer's disease	Diabetes, atherosclerosis, Alzheimer's, depression, rheumatoid arthritis, systematic lupus, cancer, MS	IL-6Rα, gp130
Oncostatin M	OSM	Involved in the regulation of neurogenesis	Rheumatoid arthritis, atherosclerosis, cancer, TEL/JAK2 disease	LIFR-high affinity, gp130-low affinity
Cardiotrophin-1	CT-1	Enhances survival of different neuronal populations	Motor Neuron Diseases (MND), cardiovascular diseases	gp130, LIFR
IL-11 (Interleukin-11)	AGIF (Adipogenesis Inhibitory Factor)	Survival of oligodendrocytes, involved in inflammation associated with MS	Atherosclerosis, MS	IL-11Rα, gp130
LIF (Leukemia Inhibitory Factor)	Differentiation-stimulating factor, D-factor, Melanoma-Derived LPL inhibitor (MLPLI)	Promotes stimulation of differentiation of cholinergic nerves	Systemic lupus, cancer, epidermal hyperplasia in ALS	LIFR
Pleiotrophin	PTN, Heparin Affin Regulatory Protein (HARP), Heparin-Binding Growth Factor-8 (HBGF-8), Osteoblast-Specific Factor-1 (OSF-1)	Promotes neurite outgrowth	Angiogenesis, Parkinson's, cancer	ALK
Midkine	MK, NEGF-2	Promotes neurite outgrowth	Alzheimer's, cancer	ALK
Neurturin	NTN, NRTN	Promotes survival of sympathetic and sensory neurons	Parkinson's	Prefers RET/GFR2α
Artemin	ART, ARTN, Enovin, Neublastin	Promotes the survival of sympathetic, neural crest, placodally-derived sensory neurons, and dopaminergic midbrain neurons	Chronic Pain	Prefers RET/GFR3α
Persephin	PSP, PSPN	Promotes the survival of ventral midbrain dopaminergic neurons and motor neurons after sciatic nerve oxotomy	Alzheimer's	Prefers RET/GFR4α

TNF Nomenclature

TNF Superfamily – Ligands

Nomenclature Name	Functional Names
TNFSF1	TNF- β , Lymphotoxin- α (LT- α), TNFSF1B
TNFSF2	TNF- α , Cachectin, DIF, Necrosin, Cytotoxin, TNFSF1A
TNFSF3	Lymphotoxin- β (LT- β), TNF-C
TNFSF4	OX40 Ligand (OX40L), Gp34, TXGP1, CD252
TNFSF5	CD40 Ligand (CD40L), TRAP, Gp39, CD154, T-BAM
TNFSF6	Fas Ligand (FasL), APTL, APT1LG1, CD95L, CD178
TNFSF7	CD70, CD27 Ligand (CD27L, CD27LG)
TNFSF8	CD30 Ligand (CD30L, CD30LG), CD153
TNFSF9	4-1BB Ligand (4-1BBL), CD137L
TNFSF10	TRAIL, Apo2 Ligand (Apo2L), CD253
TNFSF11	RANK Ligand (RANKL), TRANCE, OPGL, ODF, CD254
TNFSF12	TWEAK, Apo3 Ligand (Apo3L), DR3LG
TNFSF13	APRIL, TALL-2, TRDL-1, CD256
TNFSF13B	BAFF, BlyS, TALL-1, CD257, TNFSF20, THANK, ZTNF4
TNFSF14	LIGHT, HVEM-Ligand (HVEM-L), CD258
TNFSF15	TL1A, TL1, VEGI
TNFSF18	AITR Ligand (AITRL), TL-6, GITR Ligand (GITRL)

TNF Superfamily – Receptors

Nomenclature Name	Functional Names
TNFRSF1A	TNF Receptor Type I (TNFR1), CD120a, p55, p60, TNFAR
TNFRSF1B	TNF Receptor Type II (TNFR2), CD120b, p75, p80
TNFRSF3	TNF Receptor Type III (TNFR3), Lymphotoxin- β Receptor, TNFR2-RP, TNFCR
TNFRSF4	OX40L Receptor, ACT35, TXGP1R, CD134
TNFRSF5	Bp50, CD40L Receptor, CDw40, CD40
TNFRSF6	FASLG Receptor, CD95, Apo-1
TNFRSF6B	DcR3, M68
TNFRSF7	CD27, CD27L Receptor, T14
TNFRSF8	CD30, CD30L Receptor, Ki-1
TNFRSF9	4-1BBL Receptor, CDw137, CD137, T-cell antigen ILA
TNFRSF10A	DR4, Apo2, TRAIL Receptor 1 (TRAILR1), CD261
TNFRSF10B	DR5, TRAIL Receptor 2 (TRAILR2), CD262, KILLER, TRICK2A, TRICKB
TNFRSF10C	DcR1, TRAIL Receptor 3 (TRAILR3), CD263
TNFRSF10D	DcR2, TRAIL Receptor 4 (TRAILR4), CD264
TNFRSF11A	RANK Receptor (RANKR), ODFR, CD265, ODAR, TRANCE Receptor
TNFRSF11B	Osteoprotegerin (OPG), OCIF, TR1
TNFRSF12	DR3, TNFRSF25, Apo3, AIR, TRAMP, LARD, WSL, WSL-1
TNFRSF13B	TACI, CD267
TNFRSF13C	BAFF Receptor (BAFFR), CD268, BlyS Receptor 3
TNFRSF14	HVEM, TR2, HveA, CD270, ATAR
TNFRSF16	NGF Receptor (NGFR), Gp80-LNGFR, p75NTR, p75 ICD, CD271
TNFRSF17	BCMA, CD269
TNFRSF18	AITR, GITR, CD357
TNFRSF19	TRADE
TNFRSF19L	RELT
TNFRSF21	DR6, CD358
TNFRSF22	SOBa, TNFRH2
TNFRSF23	SO, TNFRH1

VEGF/PDGF Family

Functional Name	Synonyms	Expression (Partial List)	Function	Receptors (Selected List)
VEGF-A ₁₂₁	Vascular Permeability Factor (VPF)	All vascularized tissues	Angiogenesis, induces endothelial cell proliferation, and cell migration, osteoclastogenesis	VEGFR-1,-2
VEGF-A ₁₄₅	Vascular Permeability Factor (VPF)	All vascularized tissues	Angiogenesis, induces endothelial cell proliferation, vasculogenesis, permeabilization of blood vessels, osteoclastogenesis	VEGFR-1,-2, HSPG, Neuropilin-1
VEGF-A ₁₆₅	Vascular Permeability Factor (VPF)	All vascularized tissues	Angiogenesis, induces endothelial cell proliferation, vasculogenesis, permeabilization of blood vessels, osteoclastogenesis	VEGFR-1,-2, HSPG, Neuropilin-1,-2
VEGF-A ₁₈₉	Vascular Permeability Factor (VPF)	All vascularized tissues	Angiogenesis, induces endothelial cell proliferation, migration	HSPG, Neuropilin-1,-2
VEGF-A ₂₀₆	Vascular Permeability Factor (VPF)	All vascularized tissues	Not determined at time of printing	HSPG, Neuropilin-1,-2
VEGF-B ₁₆₇	VEGF-Related Factor (VRF)	Heart, skeletal muscle, vascular smooth muscle cells	Embryonic angiogenesis	VEGFR-1, Neuropilin-1
VEGF-B ₁₈₆	VEGF-Related Factor (VRF)	Heart, skeletal muscle, vascular smooth muscle cells	Embryonic angiogenesis	VEGFR-1, Neuropilin-2
VEGF-C	VEGF-2, Vascular Endothelial Growth Factor Related protein (VRP), Flt4-Ligand	Neuroendocrine organs, lung, heart, kidney, vascular smooth muscle cells	Lymphangiogenesis and tumor angiogenesis	VEGFR-2,-3, Neuropilin-2
VEGF-D	c-Fos Induced Growth Factor (FIGF)	Neuroendocrine organs, lung, heart, skeletal muscle, small intestine, vascular smooth muscle cells	Lymphangiogenesis and tumor angiogenesis	VEGFR-2,-3
VEGF-E (Orf Virus)	None	Virus-derived	Induces endothelial proliferation, vascular permeability, angiogenesis	VEGFR-2, Neuropilin-1 (binds NZ2-VEGF-E variant)
VEGF-F (Snake venom)	None	Snake venom	Induces endothelial proliferation vascular permeability, angiogenesis	VEGFR-2
PlGF-1	Placenta Growth Factor-1, PGFL, PGF, PlGF	Placenta, thyroid, lung, goiter	Angiogenesis, chemotactic towards monocytes, wound healing and tumor formation	VEGFR-1
PlGF-2	Placenta Growth Factor-2, PGFL	Placenta, thyroid, lung, goiter	Angiogenesis, chemotactic towards monocytes, wound healing and tumor formation	VEGFR-1, Neuropilin-1, Neuropilin-2
PlGF-3	Placenta Growth Factor-3, PGFL	Placenta	Angiogenesis, chemotactic towards monocytes, wound healing and tumor formation	VEGFR-1
PlGF-4	Placenta Growth Factor-4, PGFL	Placenta, thyroid, lung, goiter	Angiogenesis, chemotactic towards monocytes, wound healing and tumor formation	VEGFR-1
PDGF-AA	Glioma-Derived Growth Factor (GDGF), Osteosarcoma-Derived Growth Factor (ODGF)	α -granules, released upon platelet activation	Mitogenic factor, hyperplasia, cell migration, embryonic neuron development, angiogenesis	PDGFR- α
PDGF-BB	Glioma-Derived Growth Factor (GDGF), Osteosarcoma-Derived Growth Factor (ODGF)	Heart, brain (substantia nigra), placenta, fetal kidney	Mitogenic factor, hyperplasia, cell migration, embryonic neuron development, angiogenesis	PDGFR- α , PDGFR- β
PDGF-AB	Glioma-Derived Growth Factor (GDGF), Osteosarcoma-Derived Growth Factor (ODGF)	α -granules, released upon platelet activation	Mitogenic factor, hyperplasia, cell migration, embryonic neuron development, angiogenesis	PDGFR- α , PDGFR- β
PDGF-CC	Fallotein, Spinal Cord-Derived Growth Factor (SCDGF)	Retinal pigment epithelia, fallopian tube, vascular smooth muscle cells in kidney, platelets, prostate, testis, uterus	Mitogenic factor, hyperplasia, cell migration, embryonic development, angiogenesis	PDGFR- α
PDGF-DD	Iris-Expressed Growth Factor (IEGF), Spinal Cord-Derived Growth Factor-B (SCDGF-B)	Heart, pancreas, adrenal gland, ovary, placenta, liver, kidney, prostate, testis, small intestine	Mitogenic factor, hyperplasia, cell migration, embryonic development, angiogenesis	PDGFR- β

Antagonists of TGF- β Ligands

Natural TGF- β Antagonists	Structural Features Contained in the Antagonist Polypeptide (M.W.)	Known TGF- β Binding Partners
Noggin	unique Noggin cysteine knot (26 kDa)	BMP-2, -4, -5, -6, -7, -13/GDF-6, -14/GDF-5
Chordin	4 CR/VWCC (Chordin) domains, 3 SOG repeats (102 kDa)	BMP-2, -4, -7
Chordin-like/Neuralin/Ventropin	3 Chordin domains (51 kDa)	BMP-4, -5, -6
Follistatin	3 cysteine-rich Follistatin (FS) and 3 kazal domains (38 kDa)	Activin, BMP-2, -4, -6, -7, Myostatin/GDF-8, GDF-11, TGF- β ₁
Follistatin-like related gene (FLRG)	2 FS and 2 kazal domains (28 kDa)	Activin, BMP-6, -7, -11, Myostatin/GDF-8, GDF-11, TGF- β ₁
GASP-1	1 Wap, 1 FS, 1 kazal, 1 IG-like, 2 kunitz, 1 netrin domains (63 kDa)	Myostatin/GDF-8, GDF-11, Activin, BMP-11
Follistatin-related protein (FSRP)	1 FS, 1 CR/VWRC, 2 EF-hand domains (35 kDa)	Activin, BMP-2, -6, -7
DAN	unique DAN cysteine knot (19 kDa)	BMP-2, -4, -7, -14/GDF-5
Cerberus	DAN-like cysteine knot (30 kDa)	BMP-2, -4, -7, Activin, Nodal
Gremlin	DAN-like cysteine knot (21 kDa)	BMP-2, -4, -7
Sclerostin/SOST	unique Sclerostin cysteine knot (24 kDa)	BMP-5, -6, -7
Decorin	multiple leucine-rich repeats (40 kDa)	TGF β -1, -2
alpha-2 macroglobulin	multiple proteinase inhibitor domains (163 kDa)	TGF β -1, -2, Activin, Inhibin

General Characteristics of Plasma Lipoproteins

LP Particle	Size	Density (g/ml)*	TG/CE Ratio*	L/P Ratio*	Associated Apoproteins
CM	1000nm	<0.95	28.83	65.66	ApoB-48 , ApoA, ApoC, ApoE, ApoH
VLDL	70nm	0.98	3.89	10.76	ApoE , ApoB-100, ApoC
IDL	40nm	1.01	0.82	8.09	ApoE , ApoB-100, ApoC
LDL	20nm	1.04	0.18	3.76	ApoB-100 , ApoC, ApoE, Apo(a)
HDL	10nm	1.13	0.16	1.22	ApoA-I , ApoC, ApoD, ApoE

LEGEND: * Average values, TG-triglycerides, CE-cholesteryl esters, L/P- lipid/protein, **Bold** represents the major apoprotein

Classification of Apoproteins

Apoprotein	MW	Function and Comments
ApoA-I	29 kDa	Major protein of HDL, activates LCAT, high levels of ApoA-I are associated with a reduced risk of CHD.
ApoA-II	17.4 kDa	Primarily in HDL, inhibits hepatic lipase activity.
ApoA-IV	46 kDa	Present in fat-rich LPs.
ApoB-48	246 kDa	Derived from ApoB-100 gene by RNA editing, found exclusively in CMs, lack the LDLR binding domain of ApoB-100.
ApoB-100	513 kDa	Major protein of LDL, binds to LDLR, high levels of ApoB-100 are associated with an increased risk of CAD.
ApoC-I	7.6 kDa	Appears to be involved in activation of LCAT.
ApoC-II	8.9 kDa	Activates LPL, deficiency of ApoC-II results in accumulation of CMs and high TG levels.
ApoC-III	8.75 kDa	Inhibits LPL.
ApoD	33 kDa	Found only in HDL, closely associated with LCAT.
ApoE	34 kDa	Three known ApoE alleles (E2, E3, E4). Binds to LDLR, inhibits development of atherosclerosis, ApoE4 is associated with late-onset Alzheimer's disease.

Note: Tables found on pages 50-57 are reflective of current knowledge.

RUO Cytokine FAQs

The relevant information relating to each product appears on the Certificate of Analysis (CoA) that is shipped with the product. Please read this information carefully to obtain instructions for reconstitution and storage. If, after reading the CoA, you need additional information, please review the following set of questions and answers, or contact our Quality Assurance Department at QualityAssurance@PeproTech.com or 800-436-9910 prompt number 4.

1. What should I know about the stability of your protein products?

Unless otherwise mentioned on the product's Lot Number-specific CoA, all of our products are formulated in such a manner that the lyophilized proteins are very stable at room temperature. However, we recommend storing lyophilized products at -20°C to -80°C.

For reconstituted solutions of most products, we recommend short-term storage at 4°C. For extended storage, the protein solution should be stored with a carrier protein (e.g. 0.1% BSA) in working aliquots and stored at -20°C to -80°C. Aliquots should be prepared to a concentration no lower than 1µg/ml, and contain at least 10µl, independent of concentration.

Please keep in mind that every freeze/thaw cycle may cause some denaturation of the protein; therefore, we do not recommend subjecting aliquots to more than a single freeze/thaw cycle.

2. What endotoxin level should be expected when purchasing PeproTech proteins?

For most of PeproTech's Animal-Free proteins, the endotoxin level is guaranteed to be less than 0.01 ng/µg of protein or 0.1 EU/µg. For most of PeproTech's non-Animal-Free proteins the endotoxin level is guaranteed to be less than 0.1 ng/µg of protein, or 1 EU/µg. However, for many proteins, the actual measured endotoxin values are consistently below this stated endotoxin level. Please contact our technical service department (QualityAssurance@PeproTech.com) for more information.

3. Why can't I see the protein pellet in the vial?

Unlike many protein products available on the market, PeproTech products are not formulated with carrier proteins or other additives (e.g., BSA, HSA, sucrose, etc.). As a result, the small amounts of protein can be deposited on the vial during lyophilization as a thin, and sometimes invisible, film. Before opening, we recommend centrifuging each vial in a microcentrifuge for 20-30 seconds to drive any protein that may be lodged in the cap or on the side to the bottom of the vial. Our quality control procedures assure that each vial contains the correct amount of product.

4. Which cytokines show cross-species activity?

With a few exceptions, most human cytokines are active on mouse cells. Many mouse cytokines are active on human cells, but may show lower specific activity than the corresponding human cytokine. The interferons, GM-CSF, IL-3, and IL-4 are known to be species-specific with very little, if any, activity on non-homologous cells. In contrast, the FGFs and neurotrophins are very highly conserved and show excellent activity on cells of other animal species.

5. What is the relationship between the specific activity expressed as an ED₅₀ and as units/mg?

While ED₅₀ is defined as the cytokine concentration at which activity is 50% of the maximum response, specific activity is defined as a measurement of reaction rate (i.e. activity) in relation to the amount or mass of a substance. Specific Activity Units should only be used as a method of expressing potency and should only be calculated for sigmoidal dose-dependent curves. The formula for converting activity expressed as an ED₅₀ in ng/ml to specific activity in units/mg is:

$$\frac{1 \times 10^6}{ED_{50} \text{ (ng/ml)}} = \text{specific activity (units/mg)}$$

6. What is the relationship between specific activity units and International Units of activity?

There is no direct correlation or calculation between specific activity unit and International Unit (IU) values. International Units (IU) express a quantification of activity for the base amount of a substance in relation to an analogous reference standard with an internationally-accepted unit of biological potency (i.e. IU/ng) that has been assigned based on an International Collaborative Study conducted by the World Health Organization (WHO). WHO Reference Standards are made available by the National Institute for Biological Standards and Control (NIBSC). Intended to simplify the comparison of activity of a substance obtained from different sources, IU measurements can vary as comparison methods are rarely the same between sources. A true direct comparison requires standardized methods of analysis in order to guarantee comparability of the substance's activity in relation to its mass across sources.

7. How does PeproTech obtain International Units of activity?

Where possible, PeproTech obtains International Unit (IU) values through multiple side-by-side comparisons of our product(s) against the analogous WHO Reference Standard within our biological activity assay. Performing multiple comparison tests allows us to account for any outliers due to possible variations with the assay (e.g. product, handling, assay protocol, etc.). Using the results of these comparisons we can provide a reliable quantification of our product's activity in relation to the activity of the WHO Reference Standard.

GMP Cytokine FAQs

1. Can I use PeproGMP® Cytokines for GMP manufacturing of investigational products, and for manufacturing commercial therapeutic products?

Yes, PeproGMP® Cytokines are intended for use in GMP manufacturing of investigational or marketed clinical products, such as cell therapy, gene therapy, tissue-engineered products, combination products, or other Advanced Therapy Medicinal Products.

PeproGMP® Cytokines are not, however, therapeutic products or excipients, and hence are not suitable for direct administration to humans. See USP Chapter <1043> Ancillary Materials for Cell, Gene, and Tissue-Engineered Products for more information, or contact PeproTech Technical Support.

2. What is the risk classification for PeproGMP® Cytokines?

PeproGMP® Cytokines are classified as Tier 2 under USP Chapter <1043>:

Tier 1: Low-risk, highly qualified materials (therapeutic drug or biologic, medical device).

Tier 2: Low-risk, well-characterized materials, produced in compliance with GMPs, and intended to be used as ancillary materials.

Tier 3: Moderate risk, not for use as ancillary materials.

Tier 4: High-risk materials

GMP Cytokine FAQ continued on next page...

GMP Cytokine FAQs

3. Is the facility where PeperoGMP® Cytokines are manufactured GMP certified by FDA? Has FDA inspected PeperoTech? How would my QA department qualify PeperoTech and PeperoGMP® Cytokines?

The US FDA does not perform inspections or GMP certification of manufacturing facilities for ancillary reagents. In some countries, the national regulatory authority does inspect and certify GMP manufacturing facilities for all types of products, but FDA GMP inspections are limited to manufacturing facilities for therapeutic products and medical devices.

PeperoGMP® Cytokines are manufactured in accordance with relevant US GMPs, under a rigorous ISO 9001-compliant quality system. All aspects of manufacturing, testing, labeling, and packaging are stringently controlled, validated, and monitored by PeperoTech QA. PeperoTech provides detailed Certificates of Analysis and Certificates of Origin for all PeperoGMP® product lines. SDS documents are also available.

4. Are PeperoGMP® Cytokines animal-origin free and human-origin free?

Yes. Cytokines in the PeperoGMP® line are manufactured using defined media, enzymes, and chemicals, none of which are derived from animal or human origin.

5. Do PeperoGMP® Cytokines have the same biological properties as the PeperoTech research-grade cytokines I have been using for R&D studies?

Yes. PeperoGMP® Cytokines are functionally equivalent to their research-grade counterparts.

6. How are PeperoGMP® Cytokines shipped?

The products are lyophilized, making them stable at a wide range of temperatures. Shipping is at ambient temperature. Upon request and at an additional cost, these products can be shipped on ice packs or dry ice.

ELISA FAQs

1. What are the stabilities of the HRP conjugates included in PeperoTech's ELISA Development Kits?

The avidin-HRP included in the ABTS kits is stable for up to 1 month at 2-8°C, and up to 2 years at -20°C.

The streptavidin-HRP included in the TMB kit is stable for at least 6 months at 2-8°C.

2. How can I find cross-reactivity information for a kit?

PeperoTech performs lot-specific, in-house cross-reactivity testing on its ELISA Development Kits. The results that have been collected from this testing are located on the kit's data sheet.

3. Is there any step of the ELISA protocol that can be left over the weekend?

The plate may be coated with the capture antibody on Friday, left at 4°C over the weekend, and resumed on Monday. Please note: changing incubation times may cause results to vary between plates.

4. Are PeperoTech's EDKs suitable to use with all sample types?

Although PeperoTech has not tested all of its kits in every matrix available, they should be suitable for use in, but not limited to: serum, plasma, cell culture supernatant, urine and saliva.

5. Is a stop solution necessary to stop the reaction?

A stop solution is not needed when using avidin-HRP + ABTS. In general, reliable standard curves are obtained when either O.D. readings do not exceed 0.2 units for the zero standard concentrations. If a stop solution is desired, 1% sodium dodecyl sulfate (SDS) may be used to end the reaction. Stop solutions are not used in PeperoTech's laboratory with ABTS kits.

A stop solution (1M HCl Stop Solution) is recommended with all of PeperoTech's TMB kits.

6. In addition to the 620nm correction wavelength recommended for the TMB EDKs, can other wavelengths be used?

A correction wavelength of 540, 570, 620, or 650nm can be used with the TMB EDKs.

7. Can I use TMB with PeperoTech's ABTS EDKs?

PeperoTech's ABTS EDKs are optimized using ABTS and are, therefore, best used in conjunction with this substrate. The kit can still be used in combination with TMB, but only after some adjustments have been made:

- The avidin-HRP provided in the kit cannot be used with TMB; streptavidin must be purchased separately.
- Dilutions of streptavidin will need to be optimized.
- A stop solution is generally needed when using streptavidin + TMB. Refer to manufacturer's data sheet.
- The TMB reaction time, prior to the addition of stop solution, will need to be optimized.
- The plate is to be read at 450nm with a correction wavelength at 620nm when using recommended plates.

8. Why is D-mannitol added to the EDK components?

D-mannitol is added to the EDK components in order to aid in protein/antibody visualization. It does not alter ELISA results.

9. Can I use the curve on the EDK data sheet as my standard curve?

A separate standard curve must be run on each ELISA plate. In other words, the curve from one plate cannot be used for a different plate. The curve that PeperoTech provides on the EDK data sheet is for demonstration purposes only, as achieved in PeperoTech's laboratory.

10. How does PeperoTech generate their standard curve?

When an ELISA is run in PeperoTech's lab, a Molecular Devices® plate reader and the SOFTmax® PRO software are used. This program uses the values that are received and generates a 4-parameter curve. Here is the equation that the program uses:
4-P Fit:

$$y = \frac{A - D}{1 + \left(\frac{x}{C}\right)^B} + D$$

x = concentration (pg/ml)

y = O.D. (405nm – 650nm)

A, B, C, & D correspond to the 4 parameters.*

*For more detailed information regarding the parameters, please contact the Technical Support Department.

Western Transfer FAQs

1. How long will the immunostaining take when PeproTech's Western Transfer protocol is followed?

The Western Transfer process will take approximately 6 hours from transfer of proteins to visualization of bands.

2. What type of molecular weight marker should be used?

PeproTech uses Novex® Sharp Pre-stained Protein Standard for use in all Western Transfers performed in-house, although this molecular weight marker does not have to be utilized. However, it is necessary that a pre-stained molecular weight marker is used when not utilizing the ECL detection method.

3. Is the addition of a positive control necessary in a Western Transfer?

Yes, in order to know exactly how the protein of interest will visualize on the Western Transfer you must add a positive control to your gel. When using PeproTech's antibodies in a Western Transfer, we recommend using the corresponding PeproTech recombinant protein, which was the immunizing antigen for the antibody of choice.

4. Is agitation of the membrane essential during the incubation periods?

Yes, it is essential that the membrane be agitated during the incubation periods. If the membrane is not agitated the antibodies, blocking buffer, and washing buffer may not affect the membrane evenly and can create splotchy, or patchy background. It can also limit the detection of the proteins by the antibodies.

5. Is it necessary to include the blotting paper during the protein transfer step?

Yes, it is necessary to include the blotting paper as a barrier in the protein

transfer step, as it helps protect the gel and membrane from any possible damage resulting from direct contact with the sponges, yet does not interfere with the electric current.

6. Does the color development system recommended in PeproTech's Western Transfer protocol have to be used?

No. There are many different color development systems that can be used for the visualization of your Western Transfer. However, the system that is chosen must be compatible with the enzyme conjugate being used. PeproTech uses an alkaline phosphatase-linked secondary antibody. NBT/BCIP is suitable for use with this enzyme, and is therefore used for the visualization of our Western Transfers.

7. Why are some Western Transfer results stronger than others when using different lots of the same antibody?

Due to the nature of polyclonal antibodies, variability may be seen from lot-to-lot.

8. Can an enzyme-conjugated primary antibody be used in a Western Transfer rather than using a primary/secondary antibody system?

Yes, an enzyme-conjugated primary antibody can be used instead of utilizing a primary/secondary antibody system in your Western Transfer. However, by using a labeled secondary antibody that recognizes the antigen-specific primary antibody, there will be an amplification of the signal seen in a Western Transfer when compared to using the enzyme-conjugated primary antibody alone.

Antibody FAQs

1. Does PeproTech test for endotoxin in their antibodies?

PeproTech does test their antibodies for endotoxin using the kinetic chromogenic LAL method. Please contact our Quality Assurance Department (QualityAssurance@PeproTech.com) for more information.

2. Which isotype are PeproTech's polyclonal antibodies?

The polyclonal antibodies that PeproTech manufactures are predominantly IgG antibodies.

3. How are your antibodies purified?

All polyclonal and biotinylated polyclonal antibodies are antigen-affinity purified. Monoclonal antibody purification varies by product; please contact our Quality Assurance Department (QualityAssurance@PeproTech.com) for more information.

4. Can you tell me what epitope your antibody binds to?

PeproTech does not perform epitope mapping at this time. As a general guideline, a polyclonal mixture of antibodies will bind to multiple epitopes on the protein of interest while each monoclonal antibody will bind to a specific epitope.

5. Have PeproTech's antibodies been tested in neutralization assays?

Neutralization testing is performed on a lot-to-lot basis for each antibody, when available. The results of this testing can be found on the product's corresponding data sheet.

6. Are PeproTech's antibodies suitable for use in ELISA and Western Blot applications?

PeproTech's antibodies are suitable for use in ELISA and Western Blot assays; please see our individual ELISA and Western Blot FAQ sections for more information regarding these applications.

7. What information should be known about the stability of your antibody products?

PeproTech's antibodies are lyophilized from PBS. As such, they are stable at room temperature for at least 1 month. For longer periods, we recommend storing the lyophilized products at -20°C to -80°C.

For reconstituted solutions of the antibodies, we recommend short-term storage at 4°C. For long-term storage the antibody solution should first be aliquoted (to avoid more than one freeze/thaw cycle) and stored frozen at -20°C to -80°C. Frozen aliquots of this antibody solution are stable for at least 6 months when kept at -20°C to -80°C.

8. Do PeproTech's antibody products contain any carrier proteins or other additives?

No, PeproTech does not formulate its polyclonal, biotinylated polyclonal, or monoclonal antibodies with additives or carrier proteins.

9. Will PeproTech's antibodies work in immunohistochemistry and immunocytochemistry applications?

All antibodies that have been tested so far have been found to be suitable for these applications. Please contact our Quality Assurance Department (QualityAssurance@PeproTech.com) for more information.

10. Will PeproTech's antibodies recognize target proteins sold by other vendors?

PeproTech's antibody products have high binding affinity towards the natural and/or recombinant versions of the corresponding proteins. However, due to lack of authenticity sometimes found in other vendors' proteins, we cannot guarantee that our antibodies will perform as well with these proteins.

11. Will PeproTech's antibodies recognize target protein in complex biological fluids such as blood or serum?

Yes. However, for samples that have a high content of interfering agents, the recognition will be less efficient and have a higher background, or reduced signal-to-noise ratio may be seen.

Serum-Free Cell Culture Supplement Kit FAQs

1. What is chemically-defined, serum-free media?

Chemically-defined media include only components of known molecular structures and concentrations.

2. What are the advantages of using chemically-defined, serum-free media?

The advantages include: lot-to-lot consistency and reproducible cell growth, greater protein yield (for protein production applications) vs. using serum, consistent media performance, lowered risk of contamination with viral and other adventitious infectious agents, reduced downstream purification challenges (for protein production applications), elimination of the need to prescreen serum lots, and simplification of any regulatory or other documentation requirements.

3. Is PeptoTech's PeptoGrow-1 Serum-Free Cell Culture Media Supplement Kit (catalog number 700-C100) protein-free?

Yes, PeptoTech's Serum-Free Cell Culture Supplement kit is protein-free, as well as animal-free.

4. Can you provide the certifications for these animal-free components?

Yes, please contact Quality Assurance.

5. Where can I find formulations for components of this kit?

Formulations for the kit and its components are proprietary to PeptoTech, Inc.

6. Can I use DMEM instead of DMEM/F12?

DMEM/F12 medium contains much more nutrition than DMEM alone as it is a mixture of half DMEM and half F12 medium. Since PeptoTech has not tested DMEM at this time, it is recommended that DMEM/F12 be used with PeptoTech's PeptoGrow-1 Serum-Free Cell Culture Supplement Kit.

PeptoGrow™ hESC Media Products FAQs

1. What are the formulations of the PeptoGrow™ hESC Media Products?

The serum- and phenol red-free, complete, chemically-defined formulations of PeptoTech's PeptoGrow™ hESC Media Products are proprietary. Designed and developed by PeptoTech in collaboration with the Stem Cell Training Course at Rutgers University, each PeptoGrow™ hESC Media Kit includes a bottle of basal medium and a separate, lyophilized component of PeptoTech's recombinant growth factors.

2. How should each PeptoGrow™ hESC Media Kit component be stored?

The basal media can be stored in the dark at 2°C to 8°C for up to 6 months. The lyophilized growth factor component can either be stored at 2°C to 8°C for up to 6 months, or -20°C to -80°C for up to five years.

3. How should the PeptoGrow™ hESC Medium be prepared for use?

Centrifuge the vial of lyophilized growth factor component prior to opening, and reconstitute with sterile, cell culture grade water (using either 500µL of water for 500mL-size Media Kits, or 100µL of water for 100mL-size Media Kits). For use within two weeks, aseptically add the entire reconstituted growth factor component to the basal medium and mix well by swirling or pipetting. Otherwise, aseptically transfer the necessary volume of basal medium into a sterile polycarbonate bottle or conical-bottom polypropylene tube, aseptically add the necessary proportion of reconstituted growth factor component and mix well by swirling. Filtration is not necessary when prepared aseptically. Label with the date of mixture and newly calculated expiration date (2 weeks from date of mixture). Store in the dark at 2°C to 8°C until needed, and only warm the amount of media needed for each given feeding.

4. Are accommodation protocols necessary when switching from my current medium to a PeptoGrow™ hESC Medium?

Accommodation protocols are not necessary when switching from one insulin-inclusive formulation to another, but may be necessary to avoid issue when switching from an insulin-inclusive formulation to an insulin-free formulation. Accommodation requirement can also depend on cell type. When an acute method (no accommodation) does not function as expected, then additional accommodation protocols (e.g. short or long) may be used. Where accommodation protocols do not function as expected, then a long accommodation can be used in combination with a gradually increasing percentage of new medium (e.g. 100:0, 80:20, 60:40, 20:80, 0:100). Please refer to the PeptoGrow™ hESC Medium Instruction Manual for additional information.

5. Is differentiation common during adaptation protocols?

Some amount of differentiation is expected with both acute and accommodation methods. Differentiated colonies can either be scraped from the culture,

or non-differentiated colonies can be transferred onto newly-coated cell culture dishes. Please refer to the PeptoGrow™ hESC Medium Instruction Manual for additional information.

6. Will cultures change in PeptoGrow™ hESC medium?

While exact changes cannot be predicted for all applications, some changes in colony morphology (e.g. cell flattening with PeptoGrow™ hESC Medium) are possible. Changes in pluripotency and cell phenotype have not been observed. Colonies in adapted cultures may tend to become more elastic and resilient to passaging. Please refer to the PeptoGrow™ hESC Medium Instruction Manual for additional information. Routine laboratory protocols can be followed where no changes are observed.

7. Should cells be cultured on coated or uncoated cultureware?

Culturing on uncoated plastic is not recommended. Corning Matrigel® is recommended as an extracellular matrix (ECM) during initial adaptations; however, other suitable ECM products can be used thereafter. Specifically formulated for use as a cell culture surface-coating reagent for our stem cell media products, PeptoTech's Animal-Free Recombinant Human Vitronectin Matrix and Buffer Kit (catalog number AF-VMB-220) can be used following either a surface-coating or premix method.

8. Why are cells attaching poorly after enzymatic passaging?

This is more than likely the results of over-digestion; however, if some colonies have attached, cultures can continue to be fed, as some cells will grow robustly after 4-6 days and cultures can be maintained from 2-4 colonies. Over-digestion can be avoided by using non-enzymatic passaging methods. Note: Enzymatic methods should not be used during cell culture steps with Animal-Free Human Vitronectin Matrix-coated cultureware. PeptoTech's osmotically-compatible Cell Passaging/Non-Enzymatic Detachment Buffer (catalog number CPD-125), which only contains PBS, HEPES, and EDTA, should be used instead.

9. Can a reagent be added to my culture if the cells have not attached well after enzymatic passaging?

The addition of 2-10 µM (preferably 2 µM) Y-27632, or a ROCK inhibitor, has been shown to enhance cellular survival and attachment during enzymatic passaging (when using either dispase or Accutase™). Increased amounts of Y-27632 have been shown to cause neural differentiation, in addition to morphological changes that have been shown to be reversible.

PeptoGrow™ hESC Media Products FAQ continued on next page...

PeproGrow™ hESC Media Products FAQs (continued)

10. Are there any additional recommendations for passaging the cells?

Additional recommendations have been included below; however, please also refer to the PeproGrow™ hESC Medium Instructions Manual.

- Appropriate timing is the most difficult part of the passaging method as it is extremely important to avoid the over-digestion of the colonies with dispase, since this can prevent colonies from attaching, or cause them to fold in on themselves upon attaching.
- After 5-7 days the colony will most likely be large enough to passage.
- Some cell death is normal. When passaging using the dispase method you can expect some percentage of cells not to attach, but if you get less than 50% viability, then the cells have been passaged too roughly. The PBS/EDTA method is gentler and leads to better recovery if cells are passaged correctly.

11. Do you have any additional recommendations for the timing of passaging the cells?

The timing of the passaging is a critical step. Cells that are passaged too early will plate poorly since the colonies will be too small and will not survive the passaging technique. Also, it is important to avoid overexposure to collagenase. We recommend using dispase or PBS/EDTA. Both are optimal at 5 minutes, but you should observe the cells at 3 minutes for both methods to determine if the full 5 minutes is needed.

12. How does cell density affect the colony growth?

If the cells are too sparsely, or too densely, populated, then this can lead to differentiation. If the split ratio is too high, then the cells will not have enough autocrine factors to enhance viability and many cells will die and/or differentiate. We recommend starting with a near confluent dish and trying a 1:6, 1:12, or 1:18 split using dispase, or a 1:6, 1:12, 1:18, or 1:24 split using a PBS/EDTA method. Further dilutions can be made if needed. We recommend adding Y27632 when using dispase at a low cell plating density, but this is not needed for a PBS/EDTA method.

13. How does spacing affect the cell density?

Spacing is arbitrary. When plating the cells we recommend that you transfer cells around the rim of the well (only for 6-well dish) and then gently move the dish back and forth to mix. For other sized dishes, disperse cells by moving the pipette as you add the cells.

14. Are there any specific recommendations for feeding the cells?

Feed the cells daily, with the exception of one “double volume” feed over the weekend.

15. Can I use matrices other than those recommended above to coat cell culture dishes?

Yes, we have tried several other coating reagents including: Laminin/Entactin (BD™), Recombinant Human Vitronectin (PeproTech; catalog number 140-09 and AF-140-09), and Synthemax II® (Corning). For the Laminin/Entactin, we observed nearly identical growth as compared to BD Matrigel™ on the standard cell culture plastics. For both the human Vitronectin and Synthemax II®, we recommend CellBIND® or an equivalent type of cell culture plastic for optimal binding of factors. We observed less spreading of colonies and slightly less robust attachment, and this method appears to require the addition of Y-27632 for additional time.

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2022 Event Schedule

Date	Name of Show	Location
February 10.....	2022 Meeting of the Israeli Society of Gene and Cell Therapy.....	Tel-Aviv, Israel
February 22-24.....	2 nd Immuno-oncological Meeting of the Israel Immunological Society.....	Haifa, Israel
February 22-24.....	Next Generation CAR-TCR Summit 2022.....	London, United Kingdom
March 24-26.....	2022 3D Cell Culture and Organoid Conference.....	Shanghai, China
March 28-30.....	From Basic Cancer Research to Innovative Therapies.....	Rehovot, Israel
March 30-31.....	ISSCR 2022 Jerusalem International Symposium.....	Jerusalem, Israel
April 8-13.....	American Society for Cancer Research (AACR).....	New Orleans, LA, USA
April 9-11.....	Enmore Bio Conference.....	Suzhou, China
April 11-15.....	Chinese Society of Cell Biology 2022 National Academic Conference.....	Xiamen, China
April 14-15.....	Spring Meeting of the Korean Association of Immunologists (KAI).....	Seoul, Korea
April 21-22.....	Organ Modelling UK.....	London, United Kingdom
April 27-29.....	JFBTM 2022.....	La Baule, France
May 4-7.....	ISCT 2022.....	San Francisco, CA, USA
May 9-12.....	Allogeneic Cell Therapies Summit 2022.....	Boston, MA, USA
May 6-10.....	Immunology 2022.....	Portland, OR, USA
May 16-19.....	ASGCT 25 th Annual Meeting.....	Washington, DC, USA
May 19-21.....	The 24 th Annual Meeting of the Korean Society for Brain and Neural Sciences.....	Incheon, Korea
May 23-25.....	Pasteur Journées Départementales d'Immunologie (JDI).....	Pornichet, France
May TBD.....	Immuno UK Congress.....	London, United Kingdom
June 15-18.....	ISSCR 2022 Annual Meeting.....	San Francisco, CA, USA
June 20-23.....	EACR 2022 Congress.....	Seville, Spain
June 28-30.....	Precision Medicine World Conference.....	Silicon Valley, CA, USA
July 6-9.....	16 th World Immune Regulation Meeting.....	Davos, Switzerland
July 10-13.....	TERMIS-AM 2022.....	Toronto, ON, Canada
September 10-15.....	Immuno Metabolism 2022.....	São Paulo, Brazil
September 15-18.....	The 15 th Annual Meeting of Chinese Neuroscience Society (CNS 2022).....	Suzhou, China
September 20-21.....	CAR-TCR Summit 2022.....	Boston, MA, USA
September 20-23.....	Cytokines 2022.....	Big Island, HI, USA
September 27-30.....	Cell & Gene Therapy Manufacturing & Commercialization.....	Boston, MA, USA
October 5-8.....	The 23 rd Annual Meeting of Korean Tissue Engineering and Regenerative Medicine Society.....	Jeju, Korea
October 11-14.....	ESGCT 29 th Congress in collaboration with BSGCT.....	Edinburgh, Scotland
October 27-30.....	The 15 th Meeting of Chinese Society for Immunology.....	Chongqing, China
October TBD.....	Cell UK.....	London, United Kingdom
November 3-5.....	The Korean Association of Immunologists International Meeting 2022 (KAI).....	Seoul, Korea
November 19-21.....	Summit for Cancer Immunotherapy.....	Montreal, QC, Canada
November 29-30.....	International Conference on Immunology, Hematology and Stem Cell Research.....	Jerusalem, Israel
December 5-8.....	Cell & Gene Therapy Manufacturing & Commercialization Europe.....	Amsterdam, Netherlands

To see our most up-to-date Tradeshow schedule, please visit our website, www.peprotech.com/events

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OUR QUALITY YOUR DEDICATION



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