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# ISOTECH<sup>®</sup> Stable Isotopes

Labeled standards



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Lab & Production Materials

The use of stable isotope labeled compounds in metabolic and nutritional studies provides a means to dissect biochemical pathways. The availability of isotopically labeled compounds for basic scientific research permits the examination of the role of metabolic pathways in maintaining physiological states. We offer a variety of deuterated,  $^{13}\text{C}$  and  $^{15}\text{N}$ -labeled vitamins, steroids, metabolites, and other biologically active compounds for this purpose. Our diverse portfolio of ISOTECH<sup>®</sup> Stable Isotopes offers the most suitable labeled bioactive molecules for all of your nutritional and metabolic research applications.

# Steroids, Hormones & Related

Steroids and hormones make up a complex group of bioactive compounds due their therapeutic utility, their role in metabolic processes, and their intricate reactivity profiles.

Product	Description	Cat. No.
Aldosterone-2,2,4,6,6,21,21-d <sub>7</sub>	98 atom % D	706035
Aldosterone-9,11,12,12-d <sub>4</sub> solution, 100 µg/mL in acetonitrile	98 atom % D	802883
Allopregnanolone-2,2,3,4,4-d <sub>5</sub> solution, 100 µg/mL in methanol	98 atom % D	809853
4-Androstene-3,17-dione-2,3,4- <sup>13</sup> C <sub>3</sub> solution, 0.1 mg/mL in methanol	98 atom % <sup>13</sup> C	730645
5α-Androst-16-ene-3-one-2,2,4,4-d <sub>4</sub>	98 atom % D	908304
Androsterone-2,2,4,4- d <sub>4</sub>	98 atom % D	903469
Androsterone-2,2,4,4- d <sub>4</sub> 3-glucuronide sodium salt	98 atom % D	903477
5α-Cholestane-2,2,4,4-d <sub>4</sub>	98 atom % D	747505
5α-Cholestan-3β-ol-2,2,3,4,4-d <sub>5</sub>	98 atom % D	777900
Cholesterol-2,2,3,4,4,6-d <sub>6</sub>	97 atom % D	488577
Cholesterol-2,3,4- <sup>13</sup> C <sub>3</sub>	99 atom % <sup>13</sup> C	749478
Cholesterol-23,24,25,26,27- <sup>13</sup> C <sub>5</sub>	99 atom % <sup>13</sup> C	809837
Cholesterol-25,26,27- <sup>13</sup> C <sub>3</sub>	99 atom % <sup>13</sup> C	707678
Cholesterol-26,26,26,27,27,27-d <sub>6</sub>	98 atom % D	679046
Cholesterol-3,4- <sup>13</sup> C <sub>2</sub> S & P tested	99 atom % <sup>13</sup> C	662291
Cholesterol-3,4- <sup>13</sup> C <sub>2</sub>	99 atom % <sup>13</sup> C	488585
Cholesterol-4- <sup>13</sup> C	99 atom % <sup>13</sup> C	605875
Cholesteryl-26,26,26,27,27,27-d <sub>6</sub> linolenate	98 atom % D	730238
Cholesteryl-25,26,26,26,27,27,27-d <sub>7</sub> sulfate sodium salt	98 atom % D	903752
Corticosterone-9,11,12,12-d <sub>4</sub>	98 atom % D	802905
Cortisone-2,2,4,6,6,9,12,12-d <sub>8</sub>	98 atom % D	900170
Cortisone-2,3,4- <sup>13</sup> C <sub>3</sub> solution, 100 µg/mL in methanol	98 atom % <sup>13</sup> C	803154
Cortisone-2,3,4- <sup>13</sup> C <sub>3</sub> -21-sulfate sodium salt solution, 100 µg/mL in methanol	98 atom % <sup>13</sup> C	900079
7-Dehydrocholesterol-25,26,26,26,27,27,27-d <sub>7</sub>	99 atom % D	774898
Dehydroepiandrosterone-2,2,3,4,4,6-d <sub>6</sub>	97 atom % D	709549
Dehydroepiandrosterone-2,2,3,4,4-d <sub>5</sub>	98 atom % D	809640
Dehydroepiandrosterone-2,2,3,4,4,6-d <sub>6</sub> sulfate sodium salt	97 atom % D	723266
20α-Dihydroprogesterone-2,3,4,20,24- <sup>13</sup> C <sub>5</sub>	99 atom % <sup>13</sup> C	908266
Dihydrotestosterone-2,3,4- <sup>13</sup> C <sub>3</sub> solution, 0.1 mg/mL in methanol	99 atom % <sup>13</sup> C	730637
3,3'-Diiodo-L-thyronine-( <i>phenoxy</i> - <sup>13</sup> C <sub>6</sub> ) (T2)	99 atom % <sup>13</sup> C	719528
3,3'-Diiodo-L-thyronine (T2)	Unlabeled	719536
11-Deoxycorticosterone-2,3,4- <sup>13</sup> C <sub>3</sub> solution, 100 µg/mL in methanol	99 atom % <sup>13</sup> C	809586
11-Deoxycortisol-2,2,4,6,6-d <sub>5</sub>	98 atom % D	710784
11-Deoxycortisol-2,3,4- <sup>13</sup> C <sub>3</sub> solution, 100 µg/mL in methanol	98 atom % <sup>13</sup> C	809594
(±)-Epinephrine-( <i>N-methyl</i> -d <sub>3</sub> )	98 atom % D	771775
17β-Estradiol-16,16,17-d <sub>3</sub>	98 atom % D	491187
17β-Estradiol-2,3,4- <sup>13</sup> C <sub>3</sub>	99 atom % <sup>13</sup> C	719552
17β-Estradiol-2,4,16,16,17-d <sub>5</sub>	97 atom % D	613967
17β-Estradiol-2,3,4- <sup>13</sup> C <sub>3</sub> 17-undecanoate solution, 100 µg/mL in methanol	99 atom % <sup>13</sup> C	904503
Estriol-2,3,4- <sup>13</sup> C <sub>3</sub>	99 atom % <sup>13</sup> C	731668
Estrone-2,3,4- <sup>13</sup> C <sub>3</sub>	99 atom % <sup>13</sup> C	719544

Product	Description	Cat. No.
Estrone-2,3,4- <sup>13</sup> C <sub>3</sub> solution, 100 µg/mL in methanol	99 atom % <sup>13</sup> C	802921
Estrone-2,4,16,16-d <sub>4</sub> 3-sulfate sodium salt	95 atom % D	524956
Etiocolanolone-2,2,3,4,4-d <sub>5</sub> solution, 100 µg/mL in methanol	98 atom % D	809861
Glycocholic acid-( <i>glycyl</i> -1- <sup>13</sup> C)	99 atom % <sup>13</sup> C	605891
Glycocholic-2,2,4,4-d <sub>4</sub> acid	98 atom % D	739723
Glycocholic acid-( <i>glycyl</i> -1- <sup>13</sup> C) monohydrate	99 atom % <sup>13</sup> C	337609
Glycodeoxycholic-2,2,4,4-d <sub>4</sub> acid	98 atom % D	739707
Hydrocortisone-1α,2α-d <sub>2</sub>	98 atom % D	614157
Hydrocortisone-9,11,12,12-d <sub>4</sub>	98 atom % D	705594
Hydrocortisone-2,3,4- <sup>13</sup> C <sub>3</sub> solution, 100 µg/mL in methanol	99 atom % <sup>13</sup> C	803146
Hydrocortisone-9,11,12,12-d <sub>4</sub> -21-sulfate sodium salt	98 atom % D	900080
11β-Hydroxy-4-androstene-3,17-dione-9,11,12,12-d <sub>4</sub>	98 atom % D	903485
24(S)-Hydroxycholesterol-23,24,25,26,27- <sup>13</sup> C <sub>5</sub>	99 atom % <sup>13</sup> C	733334
16-α-Hydroxyestrone-2,3,4- <sup>13</sup> C <sub>3</sub>	99 atom % <sup>13</sup> C	731641
17α-Hydroxypregnenolone-20,21- <sup>13</sup> C <sub>2</sub> ,16,16-d <sub>2</sub>	99 atom % <sup>13</sup> C 99 atom % D	803081
17α-Hydroxyprogesterone-2,3,4- <sup>13</sup> C <sub>3</sub>	98 atom % <sup>13</sup> C	738093
18-Hydroxycorticosterone-9,11,12,12-d <sub>4</sub>	98 atom % D	710792
18-Hydroxycorticosterone	Unlabeled	710806
Melengestrol acetate-d <sub>3</sub>	98 atom % D	793485
2-Methoxy- <sup>13</sup> C <sub>3</sub> -estradiol	99 atom % <sup>13</sup> C 98 atom % D	705829
2-Methoxy-17β-estradiol-1,4,16,16,17-d <sub>5</sub>	98 atom % D	614076
2-Methoxy- <sup>13</sup> C <sub>3</sub> -estrone	99 atom % <sup>13</sup> C 98 atom % D	705705
4-Methoxy- <sup>13</sup> C <sub>3</sub> -estrone	99 atom % <sup>13</sup> C 98 atom % D	705691
17α-Methyl-5β-androstan-3α,17β-diol-20,20,20-d <sub>3</sub>	98 atom % D	908258
Oxytocin-( <i>leucine</i> -5,5,5-d <sub>3</sub> , <i>glycine</i> -2,2-d <sub>2</sub> ) trifluoroacetate salt	≥98 atom % D	900169
Pregnanediol-2,2,3,4,4-d <sub>5</sub>	98 atom % D	903639
Pregnanediol-2,3,4,20,21- <sup>13</sup> C <sub>5</sub> glucuronide sodium salt	99 atom % <sup>13</sup> C	903620
Pregnenolone-2,2,4,4-d <sub>4</sub>	98 atom % D	809845
Pregnenolone-20,21- <sup>13</sup> C <sub>2</sub> -16,16-d <sub>2</sub>	99 atom % <sup>13</sup> C 98 atom % D	739545
Pregnenolone-20,21- <sup>13</sup> C <sub>2</sub> -16,16-d <sub>2</sub> sulfate sodium salt	99 atom % <sup>13</sup> C 98 atom % D	740985
Pregnenolone-17α,21,21,21-d <sub>4</sub> sulfate sodium salt	98 atom % D	721301
Progesterone-2,3,4,20,21- <sup>13</sup> C <sub>5</sub>	99 atom % <sup>13</sup> C	903744
Progesterone-2,3,4- <sup>13</sup> C <sub>3</sub>	99 atom % <sup>13</sup> C	737143
Progesterone-2,3,4- <sup>13</sup> C <sub>3</sub> solution, 100 µg/mL in acetonitrile	99 atom % <sup>13</sup> C	803065
Testosterone-2,3,4- <sup>13</sup> C <sub>3</sub> solution, 0.1 mg/mL in methanol	99 atom % <sup>13</sup> C	730610
Tetrahydrocortisol-2,2,3,4,4-d <sub>5</sub> solution, 100 µg/mL in methanol	98 atom % D	809314
Tetrahydrocortisol-2,2,3,4,4-d <sub>5</sub>	98 atom % D	900182
Tetrahydrocortisone-2,2,3,4,4-d <sub>5</sub>	98 atom % D	900183
Tetrahydrocortisone-9,12,12,21,21-d <sub>5</sub>	98 atom % D	695971
Tetrahydrocortisone-2,2,3,4,4-d <sub>5</sub> solution, 100 µg/mL in methanol	98 atom % D	809276
3α,5β-Tetrahydroaldosterone	Unlabeled	750026
L-Thyroxine-( <i>diphenyl</i> - <sup>13</sup> C <sub>12</sub> )	99 atom % <sup>13</sup> C	699594
3,3',5'-Triiodothyronine-( <i>tyrosine phenyl</i> - <sup>13</sup> C <sub>6</sub> ) hydrochloride	99 atom % <sup>13</sup> C	709611
3,3',5'-Triiodothyronine-( <i>diiodophenyl</i> - <sup>13</sup> C <sub>6</sub> ) hydrochloride	99 atom % <sup>13</sup> C	709719

# Vitamins & Related

Vitamins are responsible for a wide range of vital functions. Their identification and quantification in complex matrices are essential to many nutritional studies.

Product	Description	Cat. No.
L-Ascorbic acid-2- <sup>13</sup> C	99 atom % <sup>13</sup> C	699004
L-Ascorbic acid-3- <sup>13</sup> C	99 atom % <sup>13</sup> C	699012
Biotin-(ring-6,6-d <sub>2</sub> )	98 atom % D	705268
Biotin-2',2',3',3'-d <sub>4</sub>	98 atom % D	809608
1 $\alpha$ ,25-Dihydroxyvitamin D <sub>2</sub> solution, 50 $\mu$ g/mL in ethanol	Unlabeled	739898
1 $\alpha$ ,25-Dihydroxyvitamin D <sub>2</sub> solution, 100 $\mu$ g/mL in ethanol	Unlabeled	739677
1 $\alpha$ ,25-Dihydroxyvitamin D <sub>3</sub> (6,19,19-d <sub>3</sub> )	Unlabeled	705942
1 $\alpha$ ,25-Dihydroxyvitamin D <sub>3</sub> (6,19,19-d <sub>3</sub> ) solution, 5 $\mu$ g/mL in ethanol	97 atom % D	740551
1 $\alpha$ ,25-Dihydroxyvitamin D <sub>3</sub> (6,19,19-d <sub>3</sub> ) solution, 50 $\mu$ g/mL in ethanol	97 atom % D	740543
1 $\alpha$ ,25-Dihydroxyvitamin D <sub>3</sub> (6,19,19-d <sub>3</sub> ) solution, 100 $\mu$ g/mL in ethanol	97 atom % D	740578
1 $\alpha$ ,25-Dihydroxyvitamin D <sub>3</sub> -26,26,26,27,27,27-d <sub>6</sub> solution, 100 $\mu$ g/mL in ethanol	98 atom % D	809926
(24R)-24,25-Dihydroxyvitamin D <sub>3</sub> solution, 100 $\mu$ g/mL in ethanol	Unlabeled	809748
(24R),24,25-Dihydroxyvitamin D <sub>3</sub> -26,26,26,27,27,27-d <sub>6</sub> solution, 100 $\mu$ g/mL in ethanol	98 atom % D	802913
Folic acid-( <i>glutamic acid</i> - <sup>13</sup> C <sub>5</sub> )	99 atom % <sup>13</sup> C	803049
Folic acid-( <i>glutamic acid</i> - <sup>13</sup> C <sub>5</sub> , <sup>15</sup> N)	99 atom % <sup>13</sup> C 98 atom % <sup>15</sup> N	803162
25-Hydroxyvitamin D <sub>2</sub> solution, 5 $\mu$ g/mL in ethanol	Unlabeled	740233
25-Hydroxyvitamin D <sub>2</sub> solution, 50 $\mu$ g/mL in ethanol	Unlabeled	740225
25-Hydroxyvitamin D <sub>2</sub> solution, 100 $\mu$ g/mL in ethanol	Unlabeled	740217
25-Hydroxyvitamin D <sub>2</sub> (6,19,19-d <sub>3</sub> )	97 atom % D	705497
25-Hydroxyvitamin D <sub>2</sub> (6,19,19-d <sub>3</sub> ) solution, 5 $\mu$ g/mL in ethanol	97 atom % D	740209
25-Hydroxyvitamin D <sub>2</sub> (6,19,19-d <sub>3</sub> ) solution, 50 $\mu$ g/mL in ethanol	97 atom % D	740195
25-Hydroxyvitamin D <sub>2</sub> (6,19,19-d <sub>3</sub> ) solution, 100 $\mu$ g/mL in ethanol	97 atom % D	740071
25-Hydroxyvitamin D <sub>3</sub> solution, 5 $\mu$ g/mL in ethanol	Unlabeled	739669
25-Hydroxyvitamin D <sub>3</sub> solution, 50 $\mu$ g/mL in ethanol	Unlabeled	739642
25-Hydroxyvitamin D <sub>3</sub> solution, 100 $\mu$ g/mL in ethanol	Unlabeled	739650
25-Hydroxyvitamin D <sub>3</sub> (6,19,19-d <sub>3</sub> )	97 atom % D	705888
25-Hydroxyvitamin D <sub>3</sub> (6,19,19-d <sub>3</sub> ) solution, 5 $\mu$ g/mL in ethanol	97 atom % D	739626
25-Hydroxyvitamin D <sub>3</sub> (6,19,19-d <sub>3</sub> ) solution, 50 $\mu$ g/mL in ethanol	97 atom % D	739618
25-Hydroxyvitamin D <sub>3</sub> (6,19,19-d <sub>3</sub> ) solution, 100 $\mu$ g/mL in ethanol	97 atom % D	739596
25-Hydroxyvitamin D <sub>3</sub> -26,26,26,27,27,27-d <sub>6</sub>	98 atom % D	803030
25-Hydroxyvitamin D <sub>3</sub> -23,24,25,26,27- <sup>13</sup> C <sub>5</sub> solution, 100 $\mu$ g/mL in ethanol	99 atom % <sup>13</sup> C	803103
25-Hydroxyvitamin D <sub>3</sub> -26,26,26,27,27,27-d <sub>6</sub> sulfate sodium salt solution, 100 $\mu$ g/mL in ethanol	98 atom % D	803111
3-epi-25-Hydroxyvitamin D <sub>3</sub>	Unlabeled	705993
3-epi-25-Hydroxyvitamin D <sub>2</sub> solution, 50 $\mu$ g/mL in ethanol	Unlabeled	753548
3-epi-25-Hydroxyvitamin D <sub>2</sub> solution, 100 $\mu$ g/mL in ethanol	Unlabeled	753556
3-epi-25-Hydroxyvitamin D <sub>3</sub>	Unlabeled	705993
3-epi-25-Hydroxyvitamin D <sub>3</sub> solution, 50 $\mu$ g/mL in ethanol	Unlabeled	739928
3-epi-25-Hydroxyvitamin D <sub>3</sub> solution, 100 $\mu$ g/mL in ethanol	Unlabeled	739936
3-epi-25-Hydroxyvitamin D <sub>3</sub> (6,19,19-d <sub>3</sub> )	98 atom % D	751316
3-epi-25-Hydroxyvitamin D <sub>3</sub> (6,19,19-d <sub>3</sub> ) solution, 50 $\mu$ g/mL in ethanol	98 atom % D	751324

Product	Description	Cat. No.
3-epi-25-Hydroxyvitamin D <sub>3</sub> (6,19,19-d <sub>3</sub> ) solution, 100 µg/mL in ethanol	98 atom % D	751332
N-Methyl- <sup>13</sup> C, <sub>d</sub> <sub>3</sub> -nicotinamide	99 atom % <sup>13</sup> C 98 atom % D	747513
5-Methyltetrahydrofolic acid-( <i>glutamic acid</i> - <sup>13</sup> C <sub>5</sub> )	99 atom % <sup>13</sup> C	803022
5'-S-Methyl- <sup>13</sup> C-5'-thioadenosine-1',2',3',4',5'- <sup>13</sup> C <sub>5</sub>	98 atom % <sup>13</sup> C	908282
Nicotinamide-2,4,5,6-d <sub>4</sub>	98 atom % D	762970
Nicotinamide-2,6,7- <sup>13</sup> C <sub>3</sub> -( <i>pyridyl</i> - <sup>15</sup> N)	98 atom % <sup>15</sup> N 98 atom % <sup>13</sup> C	809799
Nicotinic acid-( <i>ring</i> -d <sub>4</sub> )	98 atom % D	486086
Nicotinic acid- <sup>13</sup> C <sub>6</sub>	99 atom % <sup>13</sup> C	595829
Pyridoxal-( <i>methyl</i> -d <sub>3</sub> )	98 atom % D	705187
Pyridoxamine-( <i>methyl</i> -d <sub>3</sub> ) dihydrochloride	98 atom % D	705322
Pyridoxine-( <i>methyl</i> -d <sub>3</sub> ) hydrochloride	98 atom % D	809659
Riboflavin-( <i>dioxopyrimidine</i> - <sup>13</sup> C <sub>4</sub> , <sup>15</sup> N <sub>2</sub> )	99 atom % <sup>13</sup> C 98 atom % <sup>15</sup> N	705292
Riboflavin-( <i>dioxopyrimidine</i> - <sup>13</sup> C <sub>4</sub> , <sup>15</sup> N <sub>2</sub> ) 5'-phosphate	98 atom % <sup>13</sup> C 98% atom <sup>15</sup> N	903795
Thiamine-(4- <i>methyl</i> - <sup>13</sup> C- <i>thiazol</i> -5-yl- <sup>13</sup> C <sub>3</sub> ) hydrochloride	99 atom % <sup>13</sup> C	731188
α-Tocopherol-( <i>phenyl</i> - <sup>13</sup> C <sub>6</sub> )	99 atom % <sup>13</sup> C	900374
α-Tocopherol-( <i>phenyl</i> -5,7- <i>dimethyl</i> -d <sub>6</sub> )	98 atom % D	731234
α-Tocopherol-( <i>trimethyl</i> - <sup>13</sup> C <sub>3</sub> <i>phenyl</i> )	99 atom % <sup>13</sup> C	900373
α-Tocopherol-( <i>trimethylphenyl</i> - <sup>13</sup> C <sub>9</sub> )	99 atom % <sup>13</sup> C	900375
(±)-α-Tocopherol-( <i>trimethyl</i> - <sup>13</sup> C <sub>3</sub> <i>phenyl</i> )	99 atom % <sup>13</sup> C	900377
Toxoflavin-3,4a,5,8a- <sup>13</sup> C <sub>4</sub>	98 atom % <sup>13</sup> C	910694
Vitamin B5 ( <i>di-β-alanine</i> - <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ) calcium salt	99 atom % <sup>13</sup> C 98 atom % <sup>15</sup> N	705837
Vitamin B12-( <i>dimethylbenzimidazole</i> - <sup>13</sup> C <sub>7</sub> ) solution, 1 µg/mL in methanol	99 atom % <sup>13</sup> C	803170
Vitamin D <sub>2</sub> solution, 100 µg/mL in ethanol	Unlabeled	740306
Vitamin D <sub>2</sub> (6,19,19-d <sub>3</sub> )	97 atom % D	705489
Vitamin D <sub>2</sub> (6,19,19-d <sub>3</sub> ) solution, 100 µg/mL in ethanol	97 atom % D	739847
Vitamin D <sub>2</sub> (6,19,19-d <sub>3</sub> ) solution, 1 mg/mL in ethanol	97 atom % D	739839
Vitamin D <sub>3</sub> solution, 100 µg/mL in ethanol	Unlabeled	740292
Vitamin D <sub>3</sub> (6,19,19-d <sub>3</sub> ) solution, 100 µg/mL in ethanol	97 atom % D	740284
Vitamin D <sub>3</sub> (6,19,19-d <sub>3</sub> ) solution, 1 mg/mL in ethanol	97 atom % D	731285
Vitamin D <sub>3</sub> -25,26,27- <sup>13</sup> C <sub>3</sub> solution, 100 µg/mL in ethanol	98 atom % <sup>13</sup> C	809756
Vitamin D <sub>3</sub> -23,24,25,26,27- <sup>13</sup> C <sub>5</sub> solution, 100 µg/mL in ethanol	98 atom % <sup>13</sup> C	900234
Vitamin D <sub>3</sub> -23,24,25,26,27- <sup>13</sup> C <sub>5</sub> solution, 1 mg/mL in ethanol	98 atom % <sup>13</sup> C	809772
Vitamin D <sub>3</sub> -6,19,19-d <sub>3</sub> sulfate sodium salt solution, 100 µg/mL in ethanol	98 atom % D	803189
Vitamin E acetate-( <i>trimethyl</i> -d <sub>9</sub> )	98 atom % D	615366
Vitamin K-d <sub>7</sub> (5,6,7,8-d <sub>4</sub> , 2- <i>methyl</i> -d <sub>3</sub> )	99 atom % D	705470
Vitamin K <sub>1</sub> -4a,5,6,7,8,8a- <sup>13</sup> C <sub>6</sub>	99 atom % <sup>13</sup> C	809888
Vitamin K <sub>2</sub> (MK-4)-(5,6,7,8-d <sub>4</sub> ,2- <i>methyl</i> -d <sub>3</sub> )	98 atom % D	809896
Vitamin K <sub>2</sub> (MK-4)-4',5,6,7,8,8'- <sup>13</sup> C <sub>6</sub>	99 atom % <sup>13</sup> C	809918
Vitamin K <sub>2</sub> (MK-7)-(5,6,7,8-d <sub>4</sub> ,2- <i>methyl</i> -d <sub>3</sub> )	98 atom % D	900074
Vitamin K <sub>2</sub> (MK-7)-4',5,6,7,8,8'- <sup>13</sup> C <sub>6</sub>	99 atom % <sup>13</sup> C	900075
Vitamin K <sub>2</sub> (MK-9)-(5,6,7,8-d <sub>4</sub> ,2- <i>methyl</i> -d <sub>3</sub> )	98 atom % D	900076
Vitamin K <sub>2</sub> (MK-9)-4',5,6,7,8,8'- <sup>13</sup> C <sub>6</sub>	98 atom % <sup>13</sup> C	900077
Vitamin K <sub>3</sub> -d <sub>8</sub>	98 atom % D	737836

# Other Bioactive Compounds

Additional labeled bioactive compounds include antibiotics, insecticides, herbicides, plant metabolites, and other natural products.

Product	Description	Cat. No.
L-Abrine-(methyl-d <sub>3</sub> )	98 atom % D	750913
Acetaminophen-(ring- <sup>13</sup> C <sub>6</sub> )	99 atom % <sup>13</sup> C	908312
5-Acetylamino-6-amino-3-methyluracil-(ring- <sup>13</sup> C <sub>4</sub> , <sup>15</sup> N <sub>2</sub> , amino- <sup>15</sup> N)	99 atom % <sup>13</sup> C 98 atom % <sup>15</sup> N	705578
N-Acetyl-Asp-Glu-OH- <sup>15</sup> N <sub>2</sub> (Spaglumeric acid- <sup>15</sup> N <sub>2</sub> )	98 atom % <sup>15</sup> N	778176
N-Acetyl-DL-cysteine-2,3- <sup>13</sup> C <sub>2</sub> , <sup>15</sup> N	99 atom % <sup>13</sup> C 98 atom % <sup>15</sup> N	765929
Aldicarb-(N-methyl- <sup>13</sup> C, d <sub>3</sub> carbamoyl- <sup>13</sup> C)	99 atom % <sup>13</sup> C 98 atom % D	733865
Aldicarb-(N-methyl- <sup>13</sup> C, d <sub>3</sub> , carbamoyl- <sup>13</sup> C) sulfone	99 atom % <sup>13</sup> C 98 atom % D	733873
Aldicarb-(N-methyl- <sup>13</sup> C, d <sub>3</sub> , carbamoyl- <sup>13</sup> C) sulfoxide	99 atom % <sup>13</sup> C 98 atom % D	733881
Ammelide- <sup>13</sup> C <sub>3</sub>	99 atom % <sup>13</sup> C	708984
Ammeline- <sup>13</sup> C <sub>3</sub>	99 atom % <sup>13</sup> C	709263
Arachidonic-5,6,8,9,11,12,14,15-d <sub>8</sub> acid	98 atom % D	735000
Atrazine-(triazyl- <sup>13</sup> C <sub>3</sub> , <sup>15</sup> N <sub>3</sub> )	98 atom % <sup>13</sup> C 98 atom % <sup>15</sup> N	809829
Azo-Resveratrol- <sup>15</sup> N <sub>2</sub>	98 atom % <sup>15</sup> N	799122
Bisphenol A-d <sub>16</sub>	98 atom % D	451835
Bisphenol A-(dimethyl-d <sub>6</sub> )	98 atom % D	588806
Bisphenol A-(diphenyl- <sup>13</sup> C <sub>12</sub> )	99 atom % <sup>13</sup> C	720186
Bisphenol A-(diphenyl-d <sub>8</sub> )	98 atom % D	614025
Bisphenol A sulfate sodium salt 95 %	Unlabeled	724246
Caffeine-(trimethyl- <sup>13</sup> C <sub>3</sub> )	99 atom % <sup>13</sup> C	485365
Caffeine-(trimethyl-d <sub>9</sub> )	99 atom % D	725625
Caffeine- <sup>13</sup> C <sub>3</sub> solution, 1 mg/mL in methanol	99 atom % <sup>13</sup> C	603295
(±)-Catechin-2,3,4- <sup>13</sup> C <sub>3</sub>	99 atom % <sup>13</sup> C	719579
(±)-Catechin-2,3,4- <sup>13</sup> C <sub>3</sub> gallate	99 atom % <sup>13</sup> C	900370
Captan-3,3,4,5,6,6-d <sub>6</sub>	98 atom % D	805750
Carfilzomib-(morpholine-d <sub>8</sub> )	98 atom % D	791938
Cefaclor-(phenyl- <sup>13</sup> C <sub>6</sub> )	99 atom % <sup>13</sup> C	678198
Chenodeoxycholic acid-2,2,4,4-d <sub>4</sub>	98 atom % D	614122
Chenodeoxycholic-2,2,3,4,4,6,7,8-d <sub>9</sub> acid	98 atom % D	809667
Chenodeoxycholic-2,2,3,4,4-d <sub>5</sub> acid	98 atom % D	617024
Chenodeoxycholic-2,2,4,4- d <sub>4</sub> acid 3-sulfate disodium salt	98 atom % D	910686
3-Chlorotyrosine- <sup>13</sup> C <sub>9</sub> , <sup>15</sup> N hydrochloride	98 atom % <sup>13</sup> C 98% atom <sup>15</sup> N	908274
Cholic acid-2,2,3,4,4-d <sub>5</sub>	98 atom % D	614106
Cholic acid-2,2,4,4-d <sub>4</sub>	98 atom % D	614149

Product	Description	Cat. No.
Cholic-24- <sup>13</sup> C acid	99 atom % <sup>13</sup> C	605883
Cholic-24- <sup>13</sup> C acid, S & P tested	99 atom % <sup>13</sup> C	778044
Cholic-2,2,4,4-d <sub>4</sub> acid 3-sulfate disodium salt	98 atom % D	903809
Clodinafop-propargyl-( <i>phenoxy</i> - <sup>13</sup> C <sub>6</sub> )	98 atom % <sup>13</sup> C	809810
Coenzyme Q10-d <sub>9</sub> ( <i>dimethoxy</i> -d <sub>6</sub> , <i>methyl</i> -d <sub>3</sub> )	98 atom % D	802891
m-Coumaric acid-1,2,3- <sup>13</sup> C <sub>3</sub>	99 atom % <sup>13</sup> C	722839
p-Coumaric acid-( <i>phenyl</i> - <sup>18</sup> O)	97 atom % <sup>18</sup> O	748986
p-Coumaric acid-1,2,3- <sup>13</sup> C <sub>3</sub>	99 atom % <sup>13</sup> C	722812
Cyanuric acid- <sup>13</sup> C <sub>3</sub>	99 atom % <sup>13</sup> C	687820
Deoxycholic acid-24- <sup>13</sup> C	99 atom % <sup>13</sup> C	685119
Deoxycholic acid-2,2,4,4-d <sub>4</sub>	98 atom % D	614130
Deoxycholic-2,2,4,4,11,11-d <sub>6</sub> acid	98 atom % D	809675
Deoxycholic-2,2,4,4-d <sub>4</sub> acid 3-sulfate disodium salt	98 atom % D	903574
Desethylamodiaquine-( <i>ethyl</i> -d <sub>5</sub> )	97 atom % D	705349
Dicamba-( <i>phenyl</i> - <sup>13</sup> C <sub>6</sub> )	99 atom % <sup>13</sup> C	705306
3,3'-Dichlorobenzidine-( <i>diphenyl</i> -d <sub>6</sub> )	98 atom % D	804045
3,6-Dichloro-2-hydroxybenzoic acid-( <i>phenyl</i> - <sup>13</sup> C <sub>6</sub> )	99 atom % <sup>13</sup> C	705810
1,3-Dimethyluric acid-2,4,5,6- <sup>13</sup> C <sub>4</sub> -1,3,9- <sup>15</sup> N <sub>3</sub>	99 atom % <sup>13</sup> C 98 atom % <sup>15</sup> N	705632
1,7-Dimethyluric acid-2,4,5,6- <sup>13</sup> C <sub>4</sub> -1,3,9- <sup>15</sup> N <sub>3</sub>	99 atom % <sup>13</sup> C 98 atom % <sup>15</sup> N	705640
1,7-Dimethylxanthine-( <i>dimethyl</i> -d <sub>6</sub> )	98 atom % D	705373
1,7-Dimethylxanthine-2,4,5,6- <sup>13</sup> C <sub>4</sub> -1,3,9- <sup>15</sup> N <sub>3</sub>	98 atom % <sup>15</sup> N 99 atom % <sup>13</sup> C	705381
3,7-Dimethylxanthine-( <i>dimethyl</i> -d <sub>6</sub> )	98 atom % D	705357
4,6-Dioxoheptanoic acid-3,4,5,6,7- <sup>13</sup> C <sub>5</sub>	99 atom % <sup>13</sup> C	749001
cis-4,7,10,13,16,19-Docosahexaenoic acid-21,21,22,22,22-d <sub>5</sub>	98 atom % D	733326
cis-5,8,11,14,17-Eicosapentaenoic acid-19,19,20,20,20-d <sub>5</sub>	98 atom % D	734322
Enalaprilat-( <i>phenyl</i> -d <sub>5</sub> )	98 atom % D	616958
(±)-Epicatechin-2,3,4- <sup>13</sup> C <sub>3</sub> gallate	99 atom % <sup>13</sup> C	900368
(±)-Epigallocatechin-2,3,4- <sup>13</sup> C <sub>3</sub>	99 atom % <sup>13</sup> C	900369
(±)-Epigallocatechin-2,3,4- <sup>13</sup> C <sub>3</sub> gallate	99 atom % <sup>13</sup> C	900376
Exemestane-(3,4- <sup>13</sup> C <sub>2</sub> -6- <i>methylidene</i> - <sup>13</sup> C)	99 atom % <sup>13</sup> C	809802
Fenitrothion-( <i>dimethoxy</i> - <sup>13</sup> C <sub>2</sub> )	99 atom % <sup>13</sup> C	808369
Fenoprofen-(3- <i>phenoxy</i> - <sup>13</sup> C <sub>6</sub> ) sodium salt dihydrate	99 atom % <sup>13</sup> C	903493
Ferulic acid-1,2,3- <sup>13</sup> C <sub>3</sub>	99 atom % <sup>13</sup> C	722820
(±)-Galocatechin-2,3,4- <sup>13</sup> C <sub>3</sub>	99 atom % <sup>13</sup> C	900371
(±)-Galocatechin-2,3,4- <sup>13</sup> C <sub>3</sub> gallate	99 atom % <sup>13</sup> C	900372
Glycochenodeoxycholic-2,2,4,4-d <sub>4</sub> acid solution, 100 µg/mL in methanol	98 atom % D	904163
Glycochenodeoxycholic-2,2,3,4,4,6,6,7,8-d <sub>9</sub> acid solution, 100 µg/mL in methanol	98 atom % D	904244
Glycochenodeoxycholic-2,2,4,4-d <sub>4</sub> acid 3-sulfate disodium salt	98 atom % D	903876
Glycocholic-2,2,4,4-d <sub>4</sub> acid 3-sulfate disodium salt	98 atom % D	903531
Glycocholic-2,2,4,4-d <sub>4</sub> acid solution, 100 µg/mL in methanol	98 atom % D	904260
Glycodeoxycholic-2,2,4,4-d <sub>4</sub> acid solution, 100 µg/mL in methanol	98 atom % D	904287
Glycodeoxycholic-2,2,4,4,11,11-d <sub>6</sub> acid solution, 100 µg/mL in methanol	98 atom % D	904309
Glycodeoxycholic-2,2,4,4-d <sub>4</sub> acid 3-sulfate disodium salt	98 atom % D	903892



Product	Description	Cat. No.
Glycolithocholic acid-2,2,4,4-d <sub>4</sub>	98 atom % D	901682
Glycolithocholic-2,2,4,4-d <sub>4</sub> acid solution, 100 µg/mL in methanol	98 atom % D	904325
Glycolithocholic-2,2,4,4-d <sub>4</sub> acid 3-sulfate disodium salt	98 atom % D	903914
Glycoursodeoxycholic acid-2,2,4,4-d <sub>4</sub>	98 atom % D	901697
Glycoursodeoxycholic-2,2,4,4-d <sub>4</sub> acid solution, 100 µg/mL in methanol	98 atom % D	904333
Glycoursodeoxycholic-2,2,4,4-d <sub>4</sub> acid 3-sulfate disodium salt	98 atom % D	903930
Histamine-1- <sup>13</sup> C,1- <sup>15</sup> N dihydrochloride	99 atom % <sup>13</sup> C 98 atom % <sup>15</sup> N	776084
Histamine-α,α,β,β-d <sub>4</sub> dihydrochloride	98 atom % D	762962
5-Hydroxyindole-3α,4,5,6,7,7a- <sup>13</sup> C <sub>6</sub> -3-acetic acid	98 atom % <sup>13</sup> C	809616
3-Hydroxy-DL-kynurenine-(α,β,γ- <sup>13</sup> C <sub>3</sub> , α-amino- <sup>15</sup> N)	98 atom % <sup>13</sup> C 98% atom <sup>15</sup> N	903450
1'-Hydroxymidazolam- <sup>13</sup> C <sub>3</sub>	99 atom % <sup>13</sup> C	763993
2-Imidazolidone-(ethylene-d <sub>4</sub> )	98 atom % D	762997
Indoxyl-3α,4,5,6,7,7a- <sup>13</sup> C <sub>6</sub> sulfate potassium salt	99 atom % <sup>13</sup> C	809780
Isophorone-2,4,4,6,6-d <sub>5</sub>	97 atom % D	738085
Isorhamnetin-(phenyl- <sup>13</sup> C <sub>6</sub> )	99 atom % <sup>13</sup> C	790362
Jasmonic-2,4,4-d <sub>3</sub> -(acetyl-2,2-d <sub>2</sub> ) acid with variable deuteration on OD	≥97 atom % D	900378
Kevetrin-(4-isothioureido- <sup>13</sup> C, <sup>15</sup> N <sub>2</sub> -butyronitrile- <sup>13</sup> C, <sup>15</sup> N) hydrochloride	98 atom %	903507
Kynurenic acid-3,5,6,7,8-d <sub>5</sub>	98 atom % D	793477
Lithocholic-2,2,4,4-d <sub>4</sub> acid solution, 100 µg/mL in methanol	98 atom % D	904317
Lithocholic-2,2,4,4-d <sub>4</sub> acid 3-sulfate disodium salt	98 atom % D	903566
Malathion-(diethyl-d <sub>10</sub> )	99 atom % D	777498
Melamine-(triamine- <sup>15</sup> N <sub>3</sub> )	min 80 atom % <sup>15</sup> N triamine max 20 atom % <sup>15</sup> N triazine	592889
Melamine- <sup>13</sup> C <sub>3</sub>	99 atom % <sup>13</sup> C	707228
Metaxyl-(phenyl- <sup>13</sup> C <sub>6</sub> )	99 atom % <sup>13</sup> C	750905
2-Methylglutaric acid-4,5- <sup>13</sup> C <sub>2</sub> solution, 1 mg/mL in methanol	99 atom % <sup>13</sup> C	908320
1-Methyluric acid-2,4,5,6- <sup>13</sup> C <sub>4</sub> , 1,3,9- <sup>15</sup> N <sub>3</sub>	99 atom % <sup>13</sup> C 98 atom % <sup>15</sup> N	705608
3-Methyluric acid-2,4,5,6- <sup>13</sup> C <sub>4</sub> , 1,3,9- <sup>15</sup> N <sub>3</sub>	99 atom % <sup>13</sup> C 98 atom % <sup>15</sup> N	705616
1-Methylxanthine-(methyl- <sup>13</sup> C, d <sub>3</sub> )	99 atom % <sup>13</sup> C 98 atom % D	705209
1-Methylxanthine-2,4,5,6- <sup>13</sup> C <sub>4</sub> , 1,3,9- <sup>15</sup> N <sub>3</sub>	99 atom % <sup>13</sup> C 98 atom % <sup>15</sup> N	705195
3-Methylxanthine-2,4,5,6- <sup>13</sup> C <sub>4</sub> , 1,3,9- <sup>15</sup> N <sub>3</sub>	99 atom % <sup>13</sup> C 98 atom % <sup>15</sup> N	705217
7-Methylxanthine-2,4,5,6- <sup>13</sup> C <sub>4</sub> , 1,3- <sup>15</sup> N <sub>2</sub>	99 atom % <sup>13</sup> C 98 atom % <sup>15</sup> N	705225
Metobromuron-(phenyl- <sup>13</sup> C <sub>6</sub> )	99 atom % <sup>13</sup> C	777447
Moricizine-(morpholino-2,2,3,3,5,5,6,6-d <sub>8</sub> ) hydrochloride	98 atom % D	903515
α-Muricholic acid-2,2,3,4,4-d <sub>5</sub>	98 atom % D	908223
β-Muricholic acid-2,2,3,4,4-d <sub>5</sub>	98 atom % D	908231
γ-Muricholic acid-2,2,3,4,4-d <sub>5</sub>	98 atom % D	908215
ω-Muricholic acid-2,2,3,4,4-d <sub>5</sub>	98 atom % D	908207
β-N-Methyl-d <sub>3</sub> -amino (BMAA- <sup>15</sup> N <sub>2</sub> )-DL-alanine- <sup>15</sup> N <sub>2</sub>	98 atom % <sup>15</sup> N 98 atom % D	759139

Product	Description	Cat. No.
4-n-Nonylphenol-2,3,5,6-d <sub>4</sub> , OD	98 atom % D	747491
Obeticholic Acid-2,2,4,4,- d <sub>4</sub>	98 atom % D	908290
4-tert-Octylphenol-( <i>phenyl</i> - <sup>13</sup> C <sub>6</sub> )	99 atom % <sup>13</sup> C	776416
Oxamyl-1- <sup>13</sup> C	99 atom % <sup>13</sup> C	746266
Penconazol-( <i>propyl</i> -d <sub>7</sub> )	98 atom % D	774634
Phloretin-( <i>hydroxyphenyl</i> - <sup>13</sup> C <sub>6</sub> )	99 atom % <sup>13</sup> C	790370
Porphobilinogen-( <i>propanoic-α,β</i> - <sup>13</sup> C <sub>2</sub> acid)	99 atom % <sup>13</sup> C	903604
Probuco- <i>propanyl</i> - <sup>13</sup> C <sub>3</sub>	99 atom % <sup>13</sup> C	705802
Pyrazine-d <sub>3</sub> -carboxamide- <sup>15</sup> N	98 atom % <sup>15</sup> N 98 atom % D	793469
Resorufin-d <sub>6</sub>	98 atom % D	705128
Resveratrol-(4- <i>hydroxyphenyl</i> - <sup>13</sup> C <sub>6</sub> )	99 atom % <sup>13</sup> C	711004
Ricinine-( <i>methyl</i> -d <sub>3</sub> )	98 atom % D	751073
Sodium DL-3-hydroxybutyrate-3,4,4,4- d <sub>4</sub> solution, 1 mg/mL in water	98 atom % D	904155
Sodium taurochenodeoxycholate-2,2,4,4-d <sub>4</sub>	98 atom % D	809683
Sodium taurochenodeoxycholate-2,2,3,4,4,6,6,7,8-d <sub>9</sub>	98 atom % D	809691
Sodium taurochenodeoxycholate-2,2,4,4-d <sub>4</sub> solution, 100 µg/mL in methanol	98 atom % D	904295
Sodium taurochenodeoxycholate-2,2,3,4,4,6,6,7,8-d <sub>9</sub> solution, 100 µg/mL in methanol	98 atom % D	904279
Sodium taurocholate-2,2,4,4-d <sub>4</sub>	98 atom % D	900036
Sodium taurocholate-2,2,4,4-d <sub>4</sub> solution, 100 µg/mL in methanol	98 atom % D	904252
Sodium taurodeoxycholate-2,2,4,4,11,11-d <sub>6</sub>	98 atom % D	900078
Sodium taurodeoxycholate-2,2,4,4-d <sub>4</sub>	98 atom % D	900073
Sodium taurodeoxycholate-2,2,4,4-d <sub>4</sub> solution, 100 µg/mL in methanol	98 atom % D	904236
Sodium taurodeoxycholate-2,2,4,4,11,11-d <sub>6</sub> solution, 100 µg/mL in methanol	98 atom % D	904228
Sodium tauroolithocholate-2,2,4,4-d <sub>4</sub>	98 atom % D	809713
Sodium tauroolithocholate-2,2,4,4-d <sub>4</sub> solution, 100 µg/mL in methanol	98 atom % D	904201
Sodium tauroursodeoxycholate-2,2,4,4-d <sub>4</sub>	98 atom % D	809721
Sodium tauroursodeoxycholate-2,2,4,4- d <sub>4</sub> solution, 100 µg/mL in methanol	98 atom % D	904198
Spermidine-( <i>butyl</i> - <sup>13</sup> C <sub>4</sub> ) trihydrochloride	99 atom % <sup>13</sup> C	740780
Spermidine-( <i>butyl</i> -d <sub>8</sub> ) trihydrochloride	98 atom % D	709891
Spermine-( <i>butyl</i> -d <sub>8</sub> ) tetrahydrochloride	98 atom % D	705330
Stachydrine-( <i>dimethyl</i> - <sup>13</sup> C <sub>2</sub> ) monohydrate	99 atom % <sup>13</sup> C	755524
cis-Tamoxifen- <sup>15</sup> N-( <i>N,N</i> - <i>dimethyl</i> - <sup>13</sup> C <sub>2</sub> )	99 atom % <sup>13</sup> C 98 atom % <sup>15</sup> N	608653
Tamoxifen-( <i>N,N</i> - <i>dimethyl</i> - <sup>13</sup> C <sub>2</sub> )	99 atom % <sup>13</sup> C	605913
Tamoxifen-( <i>N,N</i> - <i>dimethyl</i> - <sup>13</sup> C <sub>2</sub> )- <sup>15</sup> N	99 atom % <sup>13</sup> C 99 atom % <sup>15</sup> N	608645
Taurochenodeoxycholic-2,2,4,4-d <sub>4</sub> acid 3-sulfate disodium salt	98 atom % D	903884
Taurocholic-2,2,4,4-d <sub>4</sub> acid 3-sulfate disodium salt	98 atom % D	903868
Taurodeoxycholic-2,2,4,4-d <sub>4</sub> acid 3-sulfate disodium salt	98 atom % D	903906
Tauroolithocholic-2,2,4,4-d <sub>4</sub> acid 3-sulfate disodium salt	98 atom % D	903922
Tauroursodeoxycholic-2,2,4,4-d <sub>4</sub> acid 3-sulfate disodium salt	98 atom % D	903949
1,3,7-Trimethyluric acid-2,4,5,6- <sup>13</sup> C <sub>4</sub> -1,3,9- <sup>15</sup> N <sub>3</sub>	99 atom % <sup>13</sup> C 98 atom % <sup>15</sup> N	705667
Uric acid-2- <sup>13</sup> C,1,3,7- <sup>15</sup> N <sub>3</sub>	98 atom % <sup>13</sup> C 98% atom <sup>15</sup> N	907804

Product	Description	Cat. No.
cis-Urocanic acid-1,2,3- <sup>13</sup> C <sub>3</sub>	99 atom % <sup>13</sup> C	<b>709638</b>
Ursodeoxycholic-2,2,4,4- d <sub>4</sub> acid solution, 100 µg/mL in methanol	98 atom % D	<b>904171</b>
Ursodeoxycholic-2,2,4,4-d <sub>4</sub> acid 3-sulfate disodium salt	98 atom % D	<b>903558</b>
Vinblastine- <sup>13</sup> C <sub>2</sub> ,d <sub>3</sub>	99 atom % <sup>13</sup> C 98 atom % D	<b>746274</b>
Yohimbine-( <i>methyl</i> - <sup>13</sup> C,d <sub>3</sub> ester)	99 atom % <sup>13</sup> C 99 atom % D	<b>731242</b>
Ziprasidone-( <i>piperazine</i> -d <sub>8</sub> )	97 atom % D	<b>778400</b>

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