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RESEARCH PRODUCTS

# Amino Acids for NMR

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Catalog No.	Description
DLM-9219	L-Abrine (methyl-D <sub>3</sub> , 98%)
CLM-116	L-Alanine (1- <sup>13</sup> C, 99%)
CLM-2016	L-Alanine (2- <sup>13</sup> C, 99%)
CLM-117	L-Alanine (3- <sup>13</sup> C, 99%)
CLM-2734	L-Alanine (2,3- <sup>13</sup> C <sub>2</sub> , 99%)
CLM-2184-H	L-Alanine ( <sup>13</sup> C <sub>3</sub> , 99%)
DLM-3101	L-Alanine (2-D, 98%)
DLM-248	L-Alanine (3,3,3-D <sub>3</sub> , 99%)
DLM-250	L-Alanine (2,3,3,3-D <sub>4</sub> , 98%)
DLM-251	L-Alanine (D <sub>7</sub> , 98%)
NLM-454	L-Alanine ( <sup>15</sup> N, 98%)
OLM-7460	L-Alanine ( <sup>18</sup> O <sub>2</sub> , 90%+)
CDLM-8649	L-Alanine (3- <sup>13</sup> C, 99%; 2-D, 96%)
CDLM-3439	L-Alanine (3- <sup>13</sup> C, 99%; 3,3,3-D <sub>3</sub> , 98%)
CNLM-6993	L-Alanine (1- <sup>13</sup> C, 99%; <sup>15</sup> N, 98%)
CNLM-3594	L-Alanine (2- <sup>13</sup> C, 99%; <sup>15</sup> N, 98%)
CNLM-534-H	L-Alanine ( <sup>13</sup> C <sub>3</sub> , 99%; <sup>15</sup> N, 99%)
DNLM-7178	L-Alanine (2,3,3,3-D <sub>4</sub> , 98%; <sup>15</sup> N, 98%)
CDNLM-6800	L-Alanine ( <sup>13</sup> C <sub>3</sub> , 97-99%; D <sub>4</sub> , 97-99%; <sup>15</sup> N, 97-99%)
NLM-1656	β-Alanine ( <sup>15</sup> N, 98%+)
CNLM-8457	β-Alanine (1,2- <sup>13</sup> C <sub>2</sub> , 99%; <sup>15</sup> N, 98%)
CLM-1268	L-Arginine•HCl (1- <sup>13</sup> C, 99%)
CLM-2070	L-Arginine•HCl (guanido- <sup>13</sup> C, 99%)
CLM-2051	L-Arginine•HCl (1,2- <sup>13</sup> C <sub>2</sub> , 99%)
CLM-2265-H	L-Arginine•HCl ( <sup>13</sup> C <sub>6</sub> , 99%)
DLM-6038	L-Arginine•HCl (4,4,5,5-D <sub>4</sub> , 94%) (<5% D)
DLM-541	L-Arginine•HCl (D <sub>7</sub> , 98%)
NLM-1267	L-Arginine•HCl (α- <sup>15</sup> N, 98%+)
NLM-395	L-Arginine•HCl (guanido- <sup>15</sup> N <sub>2</sub> , 98%+)
NLM-396	L-Arginine•HCl ( <sup>15</sup> N <sub>4</sub> , 98%)
CDLM-3789	L-Arginine•HCl (5- <sup>13</sup> C, 99%; 4,4,5,5-D <sub>4</sub> , 95%)
CNLM-539-H	L-Arginine•HCl ( <sup>13</sup> C <sub>6</sub> , 99%; <sup>15</sup> N <sub>4</sub> , 99%)
DNLM-7543	L-Arginine•HCl (D <sub>7</sub> , 98%; <sup>15</sup> N <sub>4</sub> , 98%)
CDNLM-6801	L-Arginine•HCl ( <sup>13</sup> C <sub>6</sub> , 97-99%; D <sub>7</sub> , 97-99%; <sup>15</sup> N <sub>4</sub> , 97-99%)
ULM-8347	L-Arginine•HCl (unlabeled)
CLM-8699-H	L-Asparagine•H <sub>2</sub> O ( <sup>13</sup> C <sub>4</sub> , 99%)
DLM-6844	L-Asparagine•H <sub>2</sub> O (2,3,3-D <sub>3</sub> , 94%)
NLM-2293	L-Asparagine (α- <sup>15</sup> N, 99%)
NLM-120	L-Asparagine•H <sub>2</sub> O (amide- <sup>15</sup> N, 98%+)

Catalog No.	Description
NLM-3286	L-Asparagine•H <sub>2</sub> O ( <sup>15</sup> N, 98%)
CNLM-3819-H	L-Asparagine•H <sub>2</sub> O ( <sup>13</sup> C <sub>4</sub> , 99%; <sup>15</sup> N <sub>2</sub> , 99%)
DNLM-6932	L-Asparagine•H <sub>2</sub> O (2,3,3-D <sub>3</sub> , 98%; <sup>15</sup> N <sub>2</sub> , 98%)
CDNLM-6802	L-Asparagine•H <sub>2</sub> O ( <sup>13</sup> C <sub>4</sub> , 97-99%; D <sub>3</sub> , 97-99%; <sup>15</sup> N <sub>2</sub> , 97-99%)
CLM-3616	L-Aspartic acid (1- <sup>13</sup> C, 99%)
CLM-3617	L-Aspartic acid (2- <sup>13</sup> C, 99%)
CLM-627	L-Aspartic acid (3- <sup>13</sup> C, 99%)
CLM-519	L-Aspartic acid (4- <sup>13</sup> C, 99%) CP 96%
CLM-4455	L-Aspartic acid (1,4- <sup>13</sup> C <sub>2</sub> , 99%)
CLM-1801-H	L-Aspartic acid ( <sup>13</sup> C <sub>4</sub> , 99%)
DLM-546	L-Aspartic acid (2,3,3-D <sub>3</sub> , 98%)
NLM-718	L-Aspartic acid ( <sup>15</sup> N, 98%)
CNLM-544-H	L-Aspartic acid ( <sup>13</sup> C <sub>4</sub> , 99%; <sup>15</sup> N, 99%)
DNLM-6931	L-Aspartic acid (2,3,3-D <sub>3</sub> , 98%; <sup>15</sup> N, 98%)
CDNLM-6803	L-Aspartic acid ( <sup>13</sup> C <sub>4</sub> , 97-99%; D <sub>3</sub> , 97-99%; <sup>15</sup> N, 97-99%)
ULM-8676	L-Aspartic acid (unlabeled)
CLM-3852	L-Cysteine (1- <sup>13</sup> C, 99%)
CLM-1868	L-Cysteine (3- <sup>13</sup> C, 99%)
CLM-4320-H	L-Cysteine ( <sup>13</sup> C <sub>3</sub> , 99%)
DLM-769	L-Cysteine (3,3-D <sub>2</sub> , 98%)
DLM-6901	L-Cysteine (2,3,3-D <sub>3</sub> , 98%)
NLM-2295	L-Cysteine ( <sup>15</sup> N, 98%)
CNLM-3871-H	L-Cysteine ( <sup>13</sup> C <sub>3</sub> , 99%; <sup>15</sup> N, 99%)
DNLM-6902	L-Cysteine (2,3,3-D <sub>3</sub> , 98%; <sup>15</sup> N, 98%)
CDNLM-6809	L-Cysteine ( <sup>13</sup> C <sub>3</sub> , 97-99%; D <sub>3</sub> , 97-99%; <sup>15</sup> N, 97-99%)
CLM-520	L-Cystine (3,3'- <sup>13</sup> C <sub>2</sub> , 99%)
NLM-3818	L-Cystine ( <sup>15</sup> N <sub>2</sub> , 98%)
CNLM-4244-H	L-Cystine ( <sup>13</sup> C <sub>6</sub> , 99%; <sup>15</sup> N <sub>2</sub> , 99%)
CDNLM-8659	L-Cystine ( <sup>13</sup> C <sub>6</sub> , 98%; D <sub>6</sub> , 98%; <sup>15</sup> N <sub>2</sub> , 98%) CP 95%
CLM-674	L-Glutamic acid (1- <sup>13</sup> C, 99%)
CLM-2474	L-Glutamic acid (2- <sup>13</sup> C, 99%)
CLM-4742	L-Glutamic acid (3- <sup>13</sup> C, 99%)
CLM-2431	L-Glutamic acid (4- <sup>13</sup> C, 98-99%)
CLM-613	L-Glutamic acid (5- <sup>13</sup> C, 99%)
CLM-2024	L-Glutamic acid (1,2- <sup>13</sup> C <sub>2</sub> , 99%)
CLM-3646	L-Glutamic acid (3,4- <sup>13</sup> C <sub>2</sub> , 99%)
CLM-1800-H	L-Glutamic acid ( <sup>13</sup> C <sub>5</sub> , 99%)
DLM-3725	L-Glutamic acid (2,4,4-D <sub>3</sub> , 97-98%)
DLM-556	L-Glutamic acid (2,3,3,4,4-D <sub>5</sub> , 97-98%)

CIL also offers microbiological and pyrogen-tested products.

CP = chemical purity

To place an order please contact CIL: | t: 978.749.8000 | 1.800.322.1174 (North America) | cilsales@isotope.com

For international inquiries, please contact our International Customer Service Department at intl@isotope.com.

Catalog No.	Description
NLM-135	L-Glutamic acid ( <sup>15</sup> N, 98%)
OLM-8028	L-Glutamic acid•HCl ( <sup>17</sup> O <sub>4</sub> , ~30%)
CNLM-554-H	L-Glutamic acid ( <sup>13</sup> C <sub>5</sub> , 99%; <sup>15</sup> N, 99%)
DNLM-6996	L-Glutamic acid (2,3,3,4,4-D <sub>5</sub> , 98%; <sup>15</sup> N, 98%)
CDNLM-6804	L-Glutamic acid ( <sup>13</sup> C <sub>5</sub> , 97-99%; D <sub>5</sub> , 97-99%; <sup>15</sup> N, 97-99%)
ULM-8675	L-Glutamic acid (unlabeled)
CLM-3612	L-Glutamine (1- <sup>13</sup> C, 99%)
CLM-3613	L-Glutamine (2- <sup>13</sup> C, 99%)
CLM-770	L-Glutamine (4- <sup>13</sup> C, 99%)
CLM-1166	L-Glutamine (5- <sup>13</sup> C, 99%)
CLM-2001	L-Glutamine (1,2- <sup>13</sup> C <sub>2</sub> , 99%)
CLM-3641	L-Glutamine (3,4- <sup>13</sup> C <sub>2</sub> , 99%)
CLM-1822-H	L-Glutamine ( <sup>13</sup> C <sub>5</sub> , 99%)
DLM-1826	L-Glutamine (2,3,3,4,4-D <sub>5</sub> , 97%)
NLM-1016	L-Glutamine (α- <sup>15</sup> N, 98%)
NLM-557	L-Glutamine (amide- <sup>15</sup> N, 98%+)
NLM-1328	L-Glutamine ( <sup>15</sup> N <sub>2</sub> , 98%)
CNLM-1275-H	L-Glutamine ( <sup>13</sup> C <sub>5</sub> , 99%; <sup>15</sup> N <sub>2</sub> , 99%)
DNLM-6997	L-Glutamine (2,3,3,4,4-D <sub>5</sub> , 98%; <sup>15</sup> N <sub>2</sub> , 98%)
CDNLM-6805	L-Glutamine ( <sup>13</sup> C <sub>5</sub> , 97-99%; D <sub>5</sub> , 97-99%; <sup>15</sup> N <sub>2</sub> , 97-99%)
CLM-422	Glycine (1- <sup>13</sup> C, 99%)
CLM-136	Glycine (2- <sup>13</sup> C, 99%)
CLM-1017	Glycine (1,2- <sup>13</sup> C <sub>2</sub> , 97-99%)
DLM-280	Glycine (D <sub>5</sub> , 98%)
DLM-1674	Glycine (2,2-D <sub>2</sub> , 98%)
NLM-202	Glycine ( <sup>15</sup> N, 98%)
CDLM-6072	Glycine (1- <sup>13</sup> C, 99%; D <sub>5</sub> , 98%)
CNLM-507	Glycine (1- <sup>13</sup> C, 99%; <sup>15</sup> N, 98%+)
CNLM-508	Glycine (2- <sup>13</sup> C, 99%; <sup>15</sup> N, 98%+)
CNLM-1673-H	Glycine ( <sup>13</sup> C <sub>2</sub> , 99%; <sup>15</sup> N, 99%)
DNLM-6862	Glycine (2,2-D <sub>2</sub> , 98%; <sup>15</sup> N, 98%)
CDNLM-6799	Glycine ( <sup>13</sup> C <sub>2</sub> , 97-99%; 2,2-D <sub>2</sub> , 97-99%; <sup>15</sup> N, 97-99%)
CLM-4793	L-Histidine (carbonyl- <sup>13</sup> C, 99%)
CLM-1512	L-Histidine•HCl•H <sub>2</sub> O (ring-2- <sup>13</sup> C, 99%) (<5% D)
CLM-2264	L-Histidine•HCl•H <sub>2</sub> O ( <sup>13</sup> C <sub>6</sub> , 97-99%) (<5% D)
NLM-2245	L-Histidine•HCl•H <sub>2</sub> O (α- <sup>15</sup> N, 98%+)
NLM-4457	L-Histidine (ring-π- <sup>15</sup> N, 98%+) (<5% D)
NLM-846	L-Histidine•HCl•H <sub>2</sub> O (ring-π- <sup>15</sup> N, 98%+) (<5% D)
NLM-4649	L-Histidine (ring-ε- <sup>15</sup> N, 98%+) (<5% D)
NLM-4765	L-Histidine•HCl•H <sub>2</sub> O (ring- <sup>15</sup> N <sub>2</sub> , 98%)
NLM-1513	L-Histidine•HCl•H <sub>2</sub> O ( <sup>15</sup> N <sub>3</sub> , 98%) (<5% D)
CNLM-758	L-Histidine•HCl•H <sub>2</sub> O ( <sup>13</sup> C <sub>6</sub> , 97-99%; <sup>15</sup> N <sub>3</sub> , 97-99%) (<5% D)
DNLM-7366	L-Histidine•HCl•H <sub>2</sub> O (D <sub>5</sub> , 98%; <sup>15</sup> N <sub>3</sub> , 98%)
CDNLM-6806	L-Histidine•HCl•H <sub>2</sub> O ( <sup>13</sup> C <sub>6</sub> , 97-99%; D <sub>5</sub> , 97-99%; <sup>15</sup> N <sub>3</sub> , 97-99%)
ULM-8798	L-Histidine (unlabeled)
CLM-1026	L-Isoleucine (1- <sup>13</sup> C, 99%)
CLM-2248-H	L-Isoleucine ( <sup>13</sup> C <sub>6</sub> , 99%)
DLM-1205	L-Isoleucine (3-methyl-D <sub>3</sub> , 98%)
DLM-141	L-Isoleucine (D <sub>10</sub> , 98%)
NLM-292	L-Isoleucine ( <sup>15</sup> N, 98%)
CNLM-561-H	L-Isoleucine ( <sup>13</sup> C <sub>6</sub> , 99%; <sup>15</sup> N, 99%)
DNLM-7325	L-Isoleucine (D <sub>10</sub> , 98%; <sup>15</sup> N, 98%)
CDNLM-4282	L-Isoleucine ( <sup>13</sup> C <sub>6</sub> , 95-97%; <sup>15</sup> N, 96-99%; 2,3-D <sub>2</sub> , 97%+)
CDNLM-6807	L-Isoleucine ( <sup>13</sup> C <sub>6</sub> , 97-99%; D <sub>10</sub> , 97-99%; <sup>15</sup> N, 97-99%)
ULM-8797	L-Isoleucine (unlabeled)
CLM-468	L-Leucine (1- <sup>13</sup> C, 99%)
CLM-2014	L-Leucine (2- <sup>13</sup> C, 99%)
CLM-3524	L-Leucine (1,2- <sup>13</sup> C <sub>2</sub> , 99%)
CLM-3383	L-Leucine (3,4- <sup>13</sup> C <sub>2</sub> , 99%)

Catalog No.	Description
CLM-2262-H	L-Leucine ( <sup>13</sup> C <sub>6</sub> , 99%)
DLM-1259	L-Leucine (5,5,5-D <sub>3</sub> , 99%)
DLM-4212	L-Leucine (isopropyl-D <sub>7</sub> , 98%)
DLM-567	L-Leucine (D <sub>10</sub> , 98%)
NLM-142	L-Leucine ( <sup>15</sup> N, 98%)
OLM-2041	L-Leucine ( <sup>18</sup> O <sub>2</sub> , 94%)
CNLM-615	L-Leucine (1- <sup>13</sup> C, 99%; <sup>15</sup> N, 98%+)
CNLM-3450	L-Leucine (2- <sup>13</sup> C, 99%; <sup>15</sup> N, 95-99%)
CNLM-3451	L-Leucine (4- <sup>13</sup> C, 99%; <sup>15</sup> N, 99%)
CNLM-281-H	L-Leucine ( <sup>13</sup> C <sub>6</sub> , 99%; <sup>15</sup> N, 99%)
COLM-7399	L-Leucine (1- <sup>13</sup> C, 99%; <sup>17</sup> O <sub>2</sub> , 60%+)
DNLM-1895	L-Leucine (5,5,5-D <sub>3</sub> , 98%; <sup>15</sup> N, 99%)
DNLM-4642	L-Leucine (D <sub>10</sub> , 98%; <sup>15</sup> N, 97%)
CDNLM-6808	L-Leucine ( <sup>13</sup> C <sub>6</sub> , 97-99%; D <sub>10</sub> , 97-99%; <sup>15</sup> N, 97-99%)
ULM-8203	L-Leucine (unlabeled)
CLM-653	L-Lysine•2HCl (1- <sup>13</sup> C, 99%)
CLM-633	L-Lysine•HCl (5- <sup>13</sup> C, 99%)
CLM-632	L-Lysine•2HCl (6- <sup>13</sup> C, 99%)
CLM-2247-H	L-Lysine•2HCl ( <sup>13</sup> C <sub>6</sub> , 99%)
DLM-2640	L-Lysine•2HCl (4,4,5,5-D <sub>4</sub> , 96-98%)
DLM-2641	L-Lysine•2HCl (3,3,4,4,5,5,6,6-D <sub>8</sub> , 98%)
DLM-570	L-Lysine•2HCl (D <sub>9</sub> , 98%)
NLM-3529	L-Lysine•HCl•H <sub>2</sub> O ( <sup>14</sup> N <sub>2</sub> , 99.99%)
NLM-143	L-Lysine•2HCl (α- <sup>15</sup> N, 95-99%)
NLM-631	L-Lysine•2HCl (ε- <sup>15</sup> N, 98%+)
NLM-1554	L-Lysine•2HCl ( <sup>15</sup> N <sub>2</sub> , 98%+)
CNLM-291-H	L-Lysine•2HCl ( <sup>13</sup> C <sub>6</sub> , 99%; <sup>15</sup> N <sub>2</sub> , 99%)
DNLM-7545	L-Lysine•2HCl (D <sub>9</sub> , 98%; <sup>15</sup> N <sub>2</sub> , 98%)
CDNLM-6810	L-Lysine•2HCl ( <sup>13</sup> C <sub>6</sub> , 97-99%; D <sub>9</sub> , 97-99%; <sup>15</sup> N <sub>2</sub> , 97-99%)
ULM-8766	L-Lysine•2HCl (unlabeled)
CLM-3267	L-Methionine (1- <sup>13</sup> C, 99%)
CLM-206	L-Methionine (methyl- <sup>13</sup> C, 99%)
CLM-893-H	L-Methionine ( <sup>13</sup> C <sub>5</sub> , 99%)
DLM-431	L-Methionine (methyl-D <sub>3</sub> , 98%)
DLM-6797	L-Methionine (2,3,3,4,4-D <sub>5</sub> ; methyl-D <sub>3</sub> , 98%)
NLM-752	L-Methionine ( <sup>15</sup> N, 96-98%)
CDLM-760	L-Methionine (1- <sup>13</sup> C, 99%; methyl-D <sub>3</sub> , 98%)
CDLM-8885	L-Methionine (2,3,3,4,4-D <sub>5</sub> , 98%; methyl- <sup>13</sup> CH <sub>3</sub> , 99%)
CNLM-759-H	L-Methionine ( <sup>13</sup> C <sub>5</sub> , 99%; <sup>15</sup> N, 99%)
DNLM-7179	L-Methionine (D <sub>9</sub> , 98%; <sup>15</sup> N, 98%)
CDNLM-6798	L-Methionine ( <sup>13</sup> C <sub>5</sub> , 97-99%; D <sub>9</sub> , 97-99%; <sup>15</sup> N, 97-99%)
ULM-8204	L-Methionine (unlabeled)
CLM-3588	L-Ornithine•HCl (1- <sup>13</sup> C, 99%)
CLM-1036	L-Ornithine•HCl (1,2- <sup>13</sup> C <sub>2</sub> , 99%)
CLM-4724-H	L-Ornithine•HCl ( <sup>13</sup> C <sub>5</sub> , 99%)
DLM-4261	L-Ornithine•HCl (5,5-D <sub>2</sub> , 98%)
DLM-6046	L-Ornithine•HCl (4,4,5,5-D <sub>4</sub> , 95%)
DLM-2969	L-Ornithine•HCl (3,3,4,4,5,5-D <sub>6</sub> , 98%)
DLM-6669	L-Ornithine•HCl (D <sub>7</sub> , 98%)
NLM-2212	L-Ornithine•HCl (α- <sup>15</sup> N, 98%)
NLM-2174	L-Ornithine•HCl (5- <sup>15</sup> N, 98%)
NLM-3610	L-Ornithine•HCl ( <sup>15</sup> N <sub>2</sub> , 98%)
CDLM-3873	L-Ornithine•HCl (5- <sup>13</sup> C, 99%; 4,4,5,5-D <sub>4</sub> , 95%)
CNLM-7578-H	L-Ornithine•HCl ( <sup>13</sup> C <sub>5</sub> , 99%; <sup>15</sup> N <sub>2</sub> , 99%)
DNLM-7369	L-Ornithine•HCl (D <sub>7</sub> , 98%; <sup>15</sup> N <sub>2</sub> , 98%)
ULM-8641	L-Ornithine•HCl (unlabeled)
CLM-762	L-Phenylalanine (1- <sup>13</sup> C, 99%)
CLM-1631	L-Phenylalanine (2- <sup>13</sup> C, 99%) CP 97%
CLM-1053	L-Phenylalanine (3- <sup>13</sup> C, 99%)

Catalog No.	Description
CLM-1055	L-Phenylalanine (ring- <sup>13</sup> C <sub>6</sub> , 99%)
CLM-2250-H	L-Phenylalanine ( <sup>13</sup> C <sub>9</sub> , 99%)
DLM-2984	L-Phenylalanine (2-D, 95%)
DLM-2985	L-Phenylalanine (3,3-D <sub>2</sub> , 98%)
DLM-1258	L-Phenylalanine (ring-D <sub>5</sub> , 98%)
DLM-2652	L-Phenylalanine (ring-D <sub>5</sub> , 3,3-D <sub>2</sub> , 98%)
DLM-372	L-Phenylalanine (D <sub>8</sub> , 98%)
NLM-108	L-Phenylalanine ( <sup>15</sup> N, 98%)
CNLM-7611	L-Phenylalanine (2,3- <sup>13</sup> C <sub>2</sub> , 99%; <sup>15</sup> N, 98%)
CNLM-575-H	L-Phenylalanine ( <sup>13</sup> C <sub>9</sub> , 99%; <sup>15</sup> N, 99%)
DNLM-7180	L-Phenylalanine (D <sub>8</sub> , 98%; <sup>15</sup> N, 98%)
CDNLM-6811	L-Phenylalanine ( <sup>13</sup> C <sub>9</sub> , 97-99%; D <sub>8</sub> , 97-99%; <sup>15</sup> N, 97-99%)
CLM-510	L-Proline (1- <sup>13</sup> C, 99%)
CLM-2260-H	L-Proline ( <sup>13</sup> C <sub>5</sub> , 99%)
DLM-487	L-Proline (D <sub>7</sub> , 97-98%)
NLM-835	L-Proline ( <sup>15</sup> N, 98%)
CNLM-436-H	L-Proline ( <sup>13</sup> C <sub>5</sub> , 99%; <sup>15</sup> N, 99%)
DNLM-7562	L-Proline (D <sub>7</sub> , 98%; <sup>15</sup> N, 98%)
CDNLM-6812	L-Proline ( <sup>13</sup> C <sub>5</sub> , 97-99%; D <sub>7</sub> , 97-99%; <sup>15</sup> N, 97-99%)
ULM-8333	L-Proline (unlabeled)
CLM-1573	L-Serine (1- <sup>13</sup> C, 99%)
CLM-2013	L-Serine (2- <sup>13</sup> C, 99%)
CLM-1572	L-Serine (3- <sup>13</sup> C, 99%)
CLM-1574-H	L-Serine ( <sup>13</sup> C <sub>3</sub> , 99%)
DLM-161	L-Serine (3,3-D <sub>2</sub> , 98%)
DLM-582	L-Serine (2,3,3-D <sub>3</sub> , 98%)
NLM-2036	L-Serine ( <sup>15</sup> N, 98%)
CNLM-3467	L-Serine (2- <sup>13</sup> C, 99%; <sup>15</sup> N, 99%)
CNLM-474-H	L-Serine ( <sup>13</sup> C <sub>3</sub> , 99%; <sup>15</sup> N, 99%)
DNLM-6863	L-Serine (2,3,3-D <sub>3</sub> , 98%; <sup>15</sup> N, 98%)
CDNLM-6813	L-Serine ( <sup>13</sup> C <sub>3</sub> , 97-99%; D <sub>3</sub> , 97-99%; <sup>15</sup> N, 97-99%)
ULM-8799	L-Serine (unlabeled)
CLM-447	L-Threonine (1- <sup>13</sup> C, 99%)
CLM-2261-H	L-Threonine ( <sup>13</sup> C <sub>4</sub> , 99%)
DLM-1693	L-Threonine (D <sub>5</sub> , 98%)
NLM-742	L-Threonine ( <sup>15</sup> N, 98%)
CNLM-587	L-Threonine ( <sup>13</sup> C <sub>4</sub> , 97-99%; <sup>15</sup> N, 97-99%)
DNLM-7367	L-Threonine (D <sub>5</sub> , 97%; <sup>15</sup> N, 98%)
CDNLM-6814	L-Threonine ( <sup>13</sup> C <sub>4</sub> , 97-99%; D <sub>5</sub> , 97-99%; <sup>15</sup> N, 97-99%)
ULM-8800	L-Threonine (unlabeled)
CLM-778	L-Tryptophan (1- <sup>13</sup> C, 99%)
CLM-1543	L-Tryptophan (indole-2- <sup>13</sup> C, 98%)
CLM-716	L-Tryptophan (indole-3- <sup>13</sup> C, 95-99%)
CLM-717	L-Tryptophan (indole-4- <sup>13</sup> C, 99%) CP 95%+
CLM-1301	L-Tryptophan (ring- <sup>13</sup> C <sub>6</sub> , 99%)
CLM-4290-H	L-Tryptophan ( <sup>13</sup> C <sub>11</sub> , 99%)
DLM-1092	L-Tryptophan (indole-D <sub>5</sub> , 98%)
DLM-6903	L-Tryptophan (D <sub>8</sub> , 98%)
NLM-1695	L-Tryptophan (α- <sup>15</sup> N, 95-99%)
NLM-1208	L-Tryptophan (indole- <sup>15</sup> N, 98%+)
NLM-800	L-Tryptophan ( <sup>15</sup> N <sub>2</sub> , 98%)
CNLM-2475-H	L-Tryptophan ( <sup>13</sup> C <sub>11</sub> , 99%; <sup>15</sup> N <sub>2</sub> , 99%)
DNLM-6904	L-Tryptophan (D <sub>8</sub> , 98%; <sup>15</sup> N <sub>2</sub> , 98%)
CDNLM-6816	L-Tryptophan ( <sup>13</sup> C <sub>11</sub> , 97-99%; D <sub>8</sub> , 97-99%; <sup>15</sup> N <sub>2</sub> , 97-99%)

Catalog No.	Description
CLM-776	L-Tyrosine (1- <sup>13</sup> C, 99%)
CLM-437	L-Tyrosine (2- <sup>13</sup> C, 99%)
CLM-3378	L-Tyrosine (3- <sup>13</sup> C, 99%)
CLM-622	L-Tyrosine (phenol-4- <sup>13</sup> C, 95-99%)
CLM-623	L-Tyrosine (phenol-3,5- <sup>13</sup> C <sub>2</sub> , 95-99%)
CLM-1542	L-Tyrosine (ring- <sup>13</sup> C <sub>6</sub> , 99%)
CLM-7881	L-Tyrosine (1- <sup>13</sup> C, ring- <sup>13</sup> C <sub>6</sub> , 99%)
CLM-2263-H	L-Tyrosine ( <sup>13</sup> C <sub>9</sub> , 99%)
DLM-2317	L-Tyrosine (3,3-D <sub>2</sub> , 98%)
DLM-2917	L-Tyrosine (ring-2,6-D <sub>2</sub> , 2-D, 98%)
DLM-449	L-Tyrosine (ring-3,5-D <sub>2</sub> , 98%)
DLM-451	L-Tyrosine (ring-D <sub>4</sub> , 98%)
DLM-589	L-Tyrosine (D <sub>7</sub> , 98%)
NLM-590	L-Tyrosine ( <sup>15</sup> N, 98%)
OLM-621	L-Tyrosine (phenol- <sup>17</sup> O, 35-40%)
OLM-8696	L-Tyrosine (phenol- <sup>18</sup> O, 85-90%)
CNLM-7610	L-Tyrosine (2,3- <sup>13</sup> C <sub>2</sub> , 99%; <sup>15</sup> N, 98%)
CNLM-439-H	L-Tyrosine ( <sup>13</sup> C <sub>9</sub> , 99%; <sup>15</sup> N, 99%)
DNLM-7373	L-Tyrosine (D <sub>7</sub> , 98%; <sup>15</sup> N, 98%)
CDNLM-6815	L-Tyrosine ( <sup>13</sup> C <sub>9</sub> , 97-99%; D <sub>7</sub> , 97-99%; <sup>15</sup> N, 97-99%)
ULM-8201	L-Tyrosine (unlabeled)
CLM-470	L-Valine (1- <sup>13</sup> C, 99%)
CLM-3050	L-Valine (2- <sup>13</sup> C, 99%)
CLM-2249-H	L-Valine ( <sup>13</sup> C <sub>5</sub> , 99%)
DLM-7732	L-Valine (3-D, 98%)
DLM-4364	L-Valine (2,3-D <sub>2</sub> , 98%)
DLM-488	L-Valine (D <sub>8</sub> , 98%)
NLM-316	L-Valine ( <sup>15</sup> N, 98%)
CNLM-3466	L-Valine (1- <sup>13</sup> C, 99%; <sup>15</sup> N, 98%)
CNLM-8678	L-Valine (2- <sup>13</sup> C, 99%; <sup>15</sup> N, 98%)
CNLM-442-H	L-Valine ( <sup>13</sup> C <sub>5</sub> , 99%; <sup>15</sup> N, 99%)
DNLM-4643	L-Valine (D <sub>8</sub> , 97%; <sup>15</sup> N, 97%)
CDNLM-6817	L-Valine ( <sup>13</sup> C <sub>5</sub> , 97-99%; D <sub>8</sub> , 97-99%; <sup>15</sup> N, 97-99%)
ULM-8202	L-Valine (unlabeled)

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