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RESEARCH PRODUCTS

# New Products

2022-2023 新発売  
研究用試薬のご案内



## Individual Standards

### Amino Acids and Derivatives

Catalog No.	Description
CNLM-11110	L-Arginine-HCl (1,2,3,4,5- <sup>13</sup> C <sub>5</sub> , 99%; α,ε- <sup>15</sup> N <sub>2</sub> , 98%)
CNLM-11083	L-Lysine-α-N-Fmoc, ε-N-Fmoc ( <sup>13</sup> C <sub>6</sub> , 99%; <sup>15</sup> N <sub>2</sub> , 99%)
DLM-11341	L-3-O-Methyl-dopa-H <sub>2</sub> O (3-OMD) (methoxy-D <sub>3</sub> , 98%)
CDNLM-11149	L-Phenylalanine (4'- <sup>13</sup> C, 99%; 2,3,3,2',3',5',6'-D <sub>7</sub> , 98%; <sup>15</sup> N, 98%)
CDNLM-12287	L-Phenylalanine (3',5'- <sup>13</sup> C <sub>2</sub> , 99%; 2,3,3,2',4',6'-D <sub>6</sub> , 98%; <sup>15</sup> N, 98%)
DLM-11082	DL-Pyroglutamic acid (3,3,4,4,5-D <sub>5</sub> , 98%)
CDLM-12299	L-Serine (2- <sup>13</sup> C, 99%; 2,3,3-D <sub>3</sub> , 97%) <3% D
CDNLM-11148	L-Tyrosine (3',5'- <sup>13</sup> C <sub>2</sub> , 99%; 2,3,3,2',6'-D <sub>5</sub> , 98%; <sup>15</sup> N, 98%)
CLM-11065	L-Tyrosine-N-Fmoc, O-t-butyl ether ( <sup>13</sup> C <sub>9</sub> , 99%) CP 94%

### Vitamins

Catalog No.	Description
CLM-12291-A	1,25-Dihydroxyvitamin D <sub>2</sub> (25,26,27- <sup>13</sup> C <sub>3</sub> , 98%) CP 95%
CLM-11417	1,25-Dihydroxyvitamin D <sub>2</sub> (20,21,22,26,27- <sup>13</sup> C <sub>5</sub> , 98%) CP 95%
CLM-12292-A	1,25-Dihydroxyvitamin D <sub>3</sub> (25,26,27- <sup>13</sup> C <sub>3</sub> , 98%) CP 95%
CLM-11420	24R,25-Dihydroxyvitamin D <sub>3</sub> (23,24,25,26,27- <sup>13</sup> C <sub>5</sub> , 98%) CP 95%
CLM-11418	3- <i>epi</i> -25-Hydroxyvitamin D <sub>2</sub> (22,26,27- <sup>13</sup> C <sub>3</sub> , 98%) CP 95%
CLM-11419	3- <i>epi</i> -25-Hydroxyvitamin D <sub>2</sub> (20,21,22,26,27- <sup>13</sup> C <sub>5</sub> , 98%) CP 95%
CLM-11421	25-Hydroxyvitamin D <sub>2</sub> (22,26,27- <sup>13</sup> C <sub>3</sub> , 98%) CP 95%
CLM-11422	25-Hydroxyvitamin D <sub>2</sub> (20,21,22,26,27- <sup>13</sup> C <sub>5</sub> , 98%) CP 95%
DLM-11423	25-Hydroxyvitamin D <sub>3</sub> (26,26,26,27,27,27-D <sub>6</sub> , 98%) CP 95%
DLM-11047	Vitamin E succinate (tocopherol succinate) (5-methyl-D <sub>3</sub> , 7-methyl-D <sub>3</sub> , 98%) CP 95%

Chemical purity (CP) is 98% or greater, unless otherwise indicated.  
For research use only. Not for use in diagnostic procedures.

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## Nucleic Acids and Derivatives

Catalog No.	Description
CLM-11402-CA	Adenosine 5'-triphosphate, ammonium salt (4'- <sup>13</sup> C, 99%) (in solution) CP 95%
CLM-11403-CA	Adenosine 5'-triphosphate, ammonium salt (5'- <sup>13</sup> C, 99%) (in solution) CP 95%
CLM-11404-CA	Adenosine 5'-triphosphate, ammonium salt (1',2',3',4',5'- <sup>13</sup> C <sub>5</sub> , 99%) (in solution) CP 95%
DLM-11405-CA	Adenosine 5'-triphosphate, ammonium salt (4'-D, 97%) (in solution) CP 95%
DLM-9268-CA	Adenosine 5'-triphosphate, ammonium salt (2,8-D <sub>2</sub> , 98%) (in solution) CP 95%
DLM-11406-CA	Adenosine 5'-triphosphate, ammonium salt (5',5''-D <sub>2</sub> , 97%) (in solution) CP 95%
DNLM-10985-CA	Adenosine 5'-triphosphate, ammonium salt (ribose-D <sub>6</sub> , 98%; <sup>15</sup> N <sub>5</sub> , 98%) (in solution) CP 95%
NLM-12312	DL-Allantoin ( <sup>15</sup> N <sub>4</sub> , 98%) CP 97%
CLM-11401-CA	2'-Deoxyguanosine-H <sub>2</sub> O ( <sup>13</sup> C <sub>10</sub> , 99%) CP 95%
ULM-11411-CA	2-Fluoro-2'-deoxyadenosine 5'-triphosphate, ammonium salt (unlabeled) (in solution) CP 95%
ULM-11412-CA	5-Fluoro-2'-deoxycytidine 5'-triphosphate, ammonium salt (unlabeled) (in solution) CP 95%
ULM-11413-CA	5-Fluoro-2'-deoxyuridine 5'-triphosphate, ammonium salt (unlabeled) (in solution) CP 95%
DLM-11407-CA	Guanosine 5'-triphosphate, ammonium salt (3'-D, 97%) (in solution) CP 95%
DNLM-10913-CA	Guanosine 5'-triphosphate, ammonium salt (ribose-1',2',3',4',5''-D <sub>6</sub> , 98%; <sup>15</sup> N <sub>5</sub> , 98%) (in solution) CP 90%
NLM-8712-CA	Inosine 5'-monophosphate, ammonium salt ( <sup>15</sup> N <sub>4</sub> , 98%) (in solution) CP 95%
CLM-11345-CA	Pseudouridine ( <sup>13</sup> C <sub>9</sub> , 99%; <sup>15</sup> N <sub>2</sub> , 98%) (in solution)
CLM-11344-CA	Pseudouridine 5'-monophosphate, ammonium salt ( <sup>13</sup> C <sub>9</sub> , 99%; <sup>15</sup> N <sub>2</sub> , 98%) (in solution)
CLM-11348-CA	1-Ribosyl-5-aminoimidazole-4-carboxamide (acadesine) (ribose- <sup>13</sup> C <sub>5</sub> , 99%)
DLM-11408-CA	Uridine (5-D, 97%) (in solution) CP 95%
CDLM-11409-CA	Uridine (5-D, 97%; 1',2',3',4',5'- <sup>13</sup> C <sub>5</sub> , 99%) (in solution) CP 95%
CDNLM-11410-CA	Uridine (2,4,5,6- <sup>13</sup> C <sub>4</sub> , 99%; 5-D, 97%; 1,3- <sup>15</sup> N <sub>2</sub> , 98%) (in solution) CP 95%
DNLM-10986-CA	Uridine 5'-triphosphate, ammonium salt (ribose-D <sub>6</sub> , 98%; uracil- <sup>15</sup> N <sub>2</sub> , 98%) (in solution) CP 95%
CLM-8700-CA	Xanthosine-5'-monophosphate, ammonium salt ( <sup>13</sup> C <sub>10</sub> , 99%) (in solution) CP 95%

## Organic Acids

Catalog No.	Description
CLM-11066	<i>cis</i> -Aconitic acid, tripotassium salt ( <sup>13</sup> C <sub>6</sub> , 95%) CP 95%
CLM-12282	Isocitric acid, trisodium salt hydrate (3,4,5,6- <sup>13</sup> C <sub>4</sub> , 98%) mixture of diastereomers
DLM-12302	Creatine-H <sub>2</sub> O ( <i>N</i> -methyl-D <sub>3</sub> ; glycine-2,2-D <sub>2</sub> , 99%)

## Other Standards

Catalog No.	Description	Concentration	Class
CLM-11041	4-(aminobutyl)Guanidine sulfate (butyl- <sup>13</sup> C <sub>4</sub> , 98%) CP 95%	neat	Neurotransmitter
NEX-CRP-N	Human C-reactive protein (CRP) ( <sup>15</sup> N, 98%)	neat	Protein
NEX-CRP-N-D	Human C-reactive protein (CRP) ( <sup>15</sup> N, 98%) denatured	neat	Protein
CLM-11289	Palmitic acid, methyl ester (1,2,3,4- <sup>13</sup> C <sub>4</sub> , 99%)	neat	Fatty acid
DLM-11086	Triheptanoin (tris(heptanoyl-7,7,7)-D <sub>9</sub> , 98%)	neat	Lipid

## Steroids/Hormones and Derivatives

Catalog No.	Description
DLM-11248	11-keto-Androstenedione (11-KA4) (D <sub>10</sub> , 90%) CP 95%
DLM-11414	21-Deoxycortisol (9,11,11,12-D <sub>4</sub> , 98%) CP 95%
CLM-11416	Epitestosterone (2,3,4- <sup>13</sup> C <sub>3</sub> , 98%) CP 95%
CLM-11415	7 $\alpha$ -Hydroxy-4-cholesten-3-one (23,24,25,26,27- <sup>13</sup> C <sub>5</sub> , 98%) CP 95%
DLM-11249	4-Pregnen-21-ol-3,20-dione (11-DB) (2,2,6,6,17,21,21-D <sub>7</sub> , 96%)

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## Mixtures, Sets, and Kits

### Mixtures

Catalog No.	Description	Unit Size
NSK-AA3	3-Plex Amino Acid Standard Mix	1 vial, 10 vials
NSK-AA3-10X	3-Plex Amino Acid Standard Mix (10X)	1 vial, 10 vials
MSK-BA1	Bile Acid Standard Mix 1 – Unconjugated	1 vial
MSK-BA2	Bile Acid Standard Mix 2 – Conjugated	1 vial
NSK-S-EXP	Expanded Steroid Mix Set S	1 vial, 10 vials
MSK-MET1	Metabolomics Standard Mix 1	1 vial
MSK-TCA1	TCA Cycle Standard Mix 1	1 vial
MSK-TCA2	TCA Cycle Standard Mix 2	1 vial

### Sets

Catalog No.	Description	Unit Size
SILAC-2PLEX	2-Plex SILAC Amino Acid Standards	1 vial each
SILAC-3PLEX	3-Plex SILAC Amino Acid Standards	1 vial each
MSK-TCA	TCA Cycle Standard Mix Sets 1 and 2	2 x 1 vials

### Kits

Catalog No.	Description	Unit Size
BAK-A6490-270	Expanded PeptiQuant™ Plus Human Plasma Proteomics Kit for Agilent 6490 QqQ and 1290 UPLC	1 kit
BAK-A6495-270	Expanded PeptiQuant™ Plus Human Plasma Proteomics Kit for Agilent 6495 QqQ and 1290 UPLC	1 kit
BAK-QE-270	Expanded PeptiQuant™ Plus Human Plasma Proteomics Kit for Thermo Scientific™ Q Exactive™ Plus and 1290 UPLC	1 kit
BAK-SC6500-270	Expanded PeptiQuant™ Plus Human Plasma Proteomics Kit for SCIEX QTRAP® 6500 and 1290 UPLC	1 kit
ISO1-KIT	Metabolite Yeast Extract Kit	1 kit
L-ISO1	Crude Lipid Yeast Extract (U- <sup>13</sup> C, 99%)	1 kit

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#### Example BAK-270 References

Percy, A.J.; Borchers, C.H. **2021**. Detailed method for performing the ExSTA approach in quantitative bottom-up plasma proteomics. *Methods Mol Biol*, 2228, 353-384.

Gaither, C.; Popp, R.; Mohammed, Y.; et al. **2020**. Determination of the concentration range for 267 proteins from 21 lots of commercial human plasma using highly multiplexed multiple reaction monitoring mass spectrometry. *Analyst*, 145(10), 3634-3644.

Bhardwaj, M.; Weigl, K.; Tikk, K.; et al. **2020**. Multiplex quantitation of 270 plasma protein markers to identify a signature for early detection of colorectal cancer. *J Cancer*, 127, 30-40.

#### Example ISO1-KIT Reference

Rampler, E.; Hermann, G.; Grabmann, G.; et al. **2021**. Benchmarking non-targeted metabolomics using yeast-derived libraries. *Metabolites*, 11(3), 160-179.

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