

PEPTIDE MODIFIERS

Fatty Amino Acids and Lipidated Building Blocks



→ **Blockbuster
Building Blocks**

Fatty acids are key components in all biological systems and play a crucial role for normal functioning at all levels of an organism.

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Azide-/alkyne-functionalized fatty acid building blocks for Click chemistry.
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Peptide modification with fatty acids increases in vivo stability.
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Lipidated poly(amino acids) suitable for drug delivery.
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Peptide Modifiers

Fatty Amino Acids and Lipidated Building Blocks

General Information

Fatty acids are key components and abundant constituents of all biological systems and are subject of many clinical, nutritional, and metabolic studies as they play a crucial role for normal functioning at all levels of an organism.

Dysfunction in fatty acid metabolism is related to various pathological states, e.g. cancer and neuro-degenerative diseases. Thus, the study and tracing of fatty acids during metabolism has become an important focus of biomedical research.

Exemplary fields of application for fatty acid building blocks:

- Azide-/alkyne-functionalized fatty acid building blocks for Click Chemistry
- Fatty acid-derivatized peptides for improved plasma half-life
- Lipidated poly(amino acid)s for drug delivery

Clickable Fatty Acids

In former times, the major technology for the analysis of fatty acid metabolism was radioisotope tracing being regulated by special laboratory requirements as well as high costs for purchase of substances as well as disposal of radioactive waste. As radioactivity-free alternative Click Chemistry-based labeling methods are gaining ground. Clickable fatty acid building blocks containing azido or alkyne groups can be integrated into fatty acids without major disturbance of the structure of the hydrophobic hydrocarbon chains.

Increased Half-Life

Furthermore, this topic gained interest as the modification of peptides with fatty acids may lead to increased serum half-life and improved pharmacokinetic and pharmacologic *in vivo* performance via binding to albumin. The most prominent examples in this context are the marketed glucagon-like peptide-1 analog blockbuster drugs Liraglutide and Semaglutide.

GLP – 1 (7-37) amide

H-His-Ala-Glu-Gly-Thr-Phe-Thr-Ser-Asp-Val-Ser-Ser-Tyr-Leu-Glu-Gly-Gln-Ala-Ala-Lys-Glu-Phe-Ile-Ala-Trp-Leu-Val-Lys-Gly-Arg-Gly-NH₂

Liraglutide (Victoza®) \$4.4 billion (2018)

[γ-L-Glutamoyl(N-α-hexadecanoyl)-Lys26, Arg34-GLP-1(7-37)]

H-His-Ala-Glu-Gly-Thr-Phe-Thr-Ser-Asp-Val-Ser-Ser-Tyr-Leu-Glu-Gly-Gln-Ala-Ala-Lys(γ-Glu-palmitoyl)-Glu-Phe-Ile-Ala-Trp-Leu-Val-Arg-Gly-Arg-Gly-OH

Semaglutide (Rybelsus®, Ozempic) \$267 million (2018)

N^{6,26}-{18-[N-(17-carboxyheptadecanoyl)-L-γ-glutamyl]-10-oxo-3,6,12,15-tetraoxa-9,18-diazaoctadecanoyl}-

[8-(2-amino-2-propanoic acid),34-L-arginine]-GLP-1(7-37)]

H-His-Aib-Glu-Gly-Thr-Phe-Thr-Ser-Asp-Val-Ser-Ser-Tyr-Leu-Glu-Gly-Gln-Ala-Ala-Lys(C₁₈-diacid-γ-

Glu-OEG-OEG)-Glu-Phe-Ile-Ala-Trp-Leu-Val-Arg-Gly-Arg-Gly-OH

Further Properties

Besides the above-mentioned applications, fatty amino acids have various other interesting properties. They may increase cell permeability of compounds and even allow substances to cross the blood-brain barrier. Another hot topic in the light of COVID-19 is the delivery of synthetic mRNA packed in lipid-based vesicles. In our portfolio, we provide lipid-functionalized polysarcosines and poly-glutamic acids suitable for the formation of lipid nanoparticles.

Derivatives available at Iris Biotech

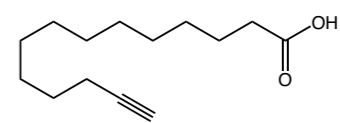

- Boc- and Fmoc-protected fatty acids
- Functionalized fatty acid derivatives (e.g. NHS active esters, azides, alkynes)
- Fatty amino acids
- Lipidated poly amino acids



The commercial availability of related products facilitates research, allows to gain better understanding and accelerates the development of new medicines.

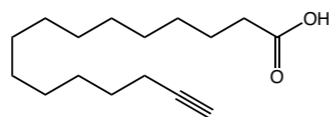
Please inquire with our Custom Synthesis Service.

Clickable Fatty Acid Building Blocks

		Product details	
RL-2055	Alkyne-myristic acid		
13-Tetradecynoic acid			
CAS-No.	82909-47-5		
Formula	C ₁₄ H ₂₄ O ₂		
Mol. weight	224,34 g/mol		

RL-2060 Alkyne-palmitic acid

15-Hexadecynoic acid
 CAS-No. 99208-90-9
 Formula $C_{16}H_{28}O_2$
 Mol. weight 252,39 g/mol

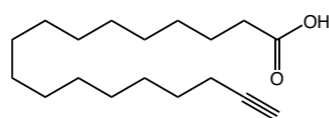


Product details



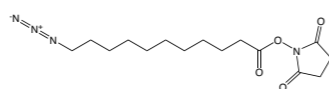
RL-2065 Alkyne-stearic acid

17-Octadecynoic acid
 CAS-No. 34450-18-5
 Formula $C_{18}H_{32}O_2$
 Mol. weight 280,45 g/mol



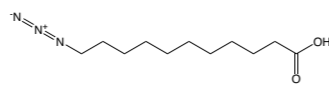
RL-3170 11-Azido-undecanoyl-OSu

11-Azidoundecanoic acid N-hydroxysuccinimide ester
 CAS-No. 850080-13-6
 Formula $C_{15}H_{24}N_4O_4$
 Mol. weight 324,38 g/mol



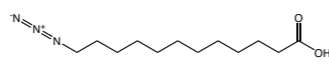
RL-3200 11-Azidoundecanoic acid

11-Azido-undecanoic acid
 CAS-No. 118162-45-1
 Formula $C_{11}H_{21}N_3O_2$
 Mol. weight 227,30 g/mol



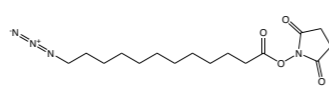
RL-3210 12-Azidododecanoic acid

12-Azido-dodecanoic acid
 CAS-No. 80667-36-3
 Formula $C_{12}H_{23}N_3O_2$
 Mol. weight 241,33 g/mol



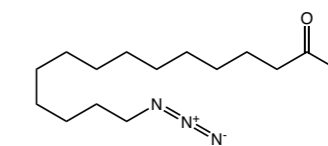
RL-3220 12-Azido-dodecanoyl-OSu

12-Azidododecanoic acid N-hydroxysuccinimide ester
 CAS-No. 2489524-00-5
 Formula $C_{16}H_{26}N_4O_4$
 Mol. weight 338,40 g/mol



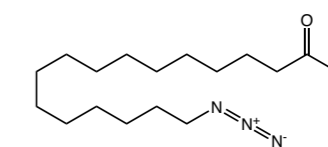
RL-3230 14-Azido-myristic acid

14-azidotetradecanoic acid
 CAS-No. 176108-61-5
 Formula $C_{14}H_{27}N_3O_2$
 Mol. weight 269,38 g/mol



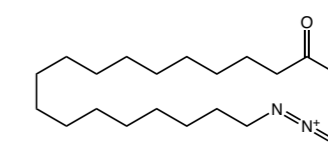
RL-3240 16-Azido-palmitic acid

16-azidohexadecanoic acid
 CAS-No. 112668-54-9
 Formula $C_{16}H_{31}N_3O_2$
 Mol. weight 297,44 g/mol



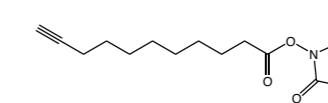
RL-3250 18-Azido-stearic acid

18-azidooctadecanoic acid
 CAS-No. 1529763-58-3
 Formula $C_{18}H_{35}N_3O_2$
 Mol. weight 325,49 g/mol



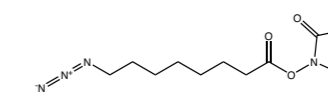
RL-3460 10-Undecynoyl-OSu

10-Undecynoic acid N-hydroxysuccinimide ester
 CAS-No. 1006592-57-9
 Formula $C_{15}H_{21}NO_4$
 Mol. weight 279,34 g/mol



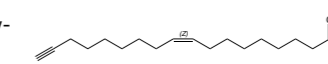
RL-3480 8-Azido-octanoyl-OSu

8-Azidooctanoic acid N-hydroxysuccinimide ester
 CAS-No. 2576471-56-0
 Formula $C_{12}H_{18}N_4O_4$
 Mol. weight 282,30 g/mol



RL-3900 Alkyne-oleic acid

(9Z)-Octadec-9-en-17-ynoic acid, Alkyne-(9Z)-octadecy-
 noic acid
 CAS-No. 151333-45-8
 Formula $C_{18}H_{30}O_2$
 Mol. weight 278,44 g/mol



Available Fatty Acid containing Building Blocks related to Liraglutide

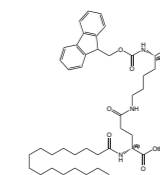
		Product details
<p>PAA1010 Palm-L-Glu(OSu)-OMe</p> <p>N-alpha-Palmitoyl-L-glutamic-acid alpha-methyl-gamma-succinimidyl ester</p> <p>Formula $C_{26}H_{44}N_2O_7$</p> <p>Mol. weight 496,64 g/mol</p>		
<p>PAA1000 Palm-L-Glu(OSu)-OtBu</p> <p>N-alpha-Palmitoyl-L-glutamic-acid alpha-t-butyl-gamma-succinimidyl ester</p> <p>CAS-No. 204521-63-1</p> <p>Formula $C_{29}H_{50}N_2O_7$</p> <p>Mol. weight 538,72 g/mol</p>		
<p>PAA1005 Palm-D-Glu(OSu)-OtBu</p> <p>N-alpha-Palmitoyl-D-glutamic-acid alpha-t-butyl-gamma-succinimidyl ester</p> <p>CAS-No. 240133-35-1</p> <p>Formula $C_{29}H_{50}N_2O_7$</p> <p>Mol. weight 538,72 g/mol</p>		
<p>PAA1160 Palm-L-Glu-OtBu</p> <p>N-alpha-Palmitoyl-L-glutamic-acid alpha-t-butyl ester</p> <p>CAS-No. 536721-25-2</p> <p>Formula $C_{25}H_{47}NO_5$</p> <p>Mol. weight 441,64 g/mol</p>		
<p>FAA3790 Fmoc-L-Lys(Palm-L-Glu-OtBu)-OH</p> <p><i>main building block</i></p> <p>N-alpha-(9-Fluorenylmethyloxycarbonyl)-N-epsilon-lon-(N-alpha'-palmitoyl-L-glutamic-acid alpha'-t-butyl ester)-L-lysine</p> <p>CAS-No. 1491158-62-3</p> <p>Formula $C_{46}H_{69}N_3O_8$</p> <p>Mol. weight 792,06 g/mol</p>		

FAA7760 Fmoc-L-Lys(Palm-D-Glu-OtBu)-OH

N-alpha-(9-Fluorenylmethyloxycarbonyl)-N-epsilon-lon-(N-alpha'-palmitoyl-D-glutamic-acid alpha'-t-butyl ester)-L-lysine

Formula $C_{46}H_{69}N_3O_8$

Mol. weight 792,06 g/mol



FAA7480 Fmoc-D-Lys(Palm-L-Glu-OtBu)-OH

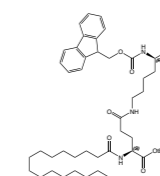
impurity

N-alpha-(9-Fluorenylmethyloxycarbonyl)-N-epsilon-lon-(N-alpha'-palmitoyl-L-glutamic-acid alpha'-t-butyl ester)-D-lysine

CAS-No. 1491158-71-4

Formula $C_{46}H_{69}N_3O_8$

Mol. weight 792,06 g/mol

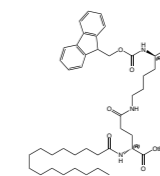


FAA7750 Fmoc-D-Lys(Palm-D-Glu-OtBu)-OH

N-alpha-(9-Fluorenylmethyloxycarbonyl)-N-epsilon-lon-(N-alpha'-palmitoyl-D-glutamic-acid alpha'-t-butyl ester)-D-lysine

Formula $C_{46}H_{69}N_3O_8$

Mol. weight 792,06 g/mol



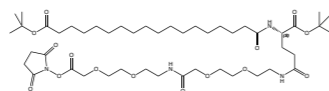
Available Building Blocks related to Semaglutide

		Product details
<p>FAA7640 Fmoc-L-Lys(Ggu-L-Glu(AA-AA))-OH</p> <p>Fmoc-Lys(tBu-OOC-C16-CO-Glu(AEEA-AEEA)-OtBu)-OH</p> <p>CAS-No. 1662688-20-1</p> <p>Formula $C_{64}H_{101}N_5O_{16}$</p> <p>Mol. weight 1196,51 g/mol</p>		
<p>OAA1000 C18-OtBu-L-Glu(AEEA-AEEA)-OtBu</p> <p>(S)-22-(t-butoxycarbonyl)-45,45-dimethyl-10,19,24,43-tetraoxo-3,6,12,15,44-pentaoxa-9,18,23-triazahexatetracontanoic acid</p> <p>CAS-No. 1118767-16-0</p> <p>Formula $C_{43}H_{79}N_3O_{13}$</p> <p>Mol. weight 846,11 g/mol</p>		

OAA1010 C18-OtBu-L-Glu(AEEA-AEEA-NHS)-OtBu

21,39-di-*t*-butyl 1-(2,5-dioxopyrrolidin-1-yl) (S)-9,18,23-trioxo-2,5,11,14-tetraoxa-8,17,22-triazanonatriacontane-1,21,39-tricarboxylate

CAS-No. 1118767-15-9
Formula $C_{47}H_{82}N_4O_{15}$
Mol. weight 943,19 g/mol

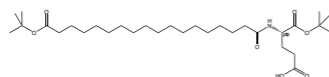


Product details

OAA1020 C18-OtBu-L-Glu-OtBu

(S)-5-(*t*-butoxy)-4-(18-(*t*-butoxy)-18-oxooctadecanamido)-5-oxopentanoic acid

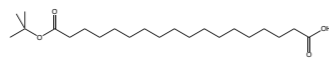
CAS-No. 1188328-39-3
Formula $C_{31}H_{57}NO_7$
Mol. weight 555,80 g/mol



OAA1030 Octadecanedioic acid, mono *t*Bu ester

18-(*t*-butoxy)-18-oxooctadecanoic acid

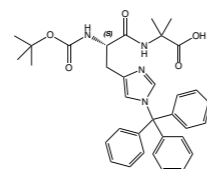
CAS-No. 843666-40-0
Formula $C_{22}H_{42}O_4$
Mol. weight 370,57 g/mol



BDP1000 Boc-L-His(Trt)-Aib-OH

N- α -*t*-Butyloxycarbonyl-L-histidyl-Nim-trityl-aminoisobutyric acid

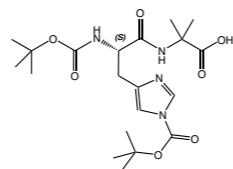
CAS-No. 2061897-68-3
Formula $C_{34}H_{38}N_4O_5$
Mol. weight 582,70 g/mol



BDP1010 Boc-L-His(Boc)-Aib-OH

N- α -*t*-Butyloxycarbonyl-L-histidyl-Nim-*t*-butyloxycarbonyl-aminoisobutyric acid

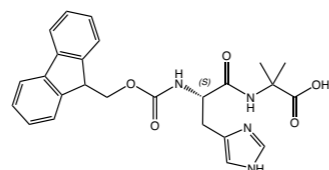
CAS-No. 1169630-98-1
Formula $C_{20}H_{32}N_4O_7$
Mol. weight 440,50 g/mol



FDPI440 Fmoc-L-His-Aib-OH*TFA

N- α -(9-Fluorenylmethyloxycarbonyl)-L-histidyl-aminoisobutyric acid trifluoroacetate

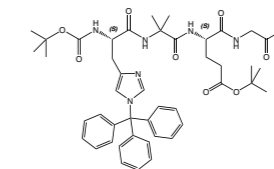
CAS-No. 1446013-08-6
Formula $C_{25}H_{26}N_4O_5 \cdot CF_3CO_2H$
Mol. weight 462,51*114,02 g/mol



BDP1020 Boc-L-His(Trt)-Aib-L-Glu(OtBu)-Gly-OH

N- α -*t*-Butyloxycarbonyl-L-histidyl-Nim-trityl-aminoisobutyryl- γ -*t*-butyl ester-L-glutamyl-glycine

CAS-No. 1890228-73-5
Formula $C_{45}H_{56}N_6O_9$
Mol. weight 824,98 g/mol

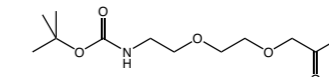


Product details

PEG8080 Boc-O₂Oc-OH

(2-(2-(*t*-Butyloxycarbonylamino)ethoxy)ethoxy)acetic acid

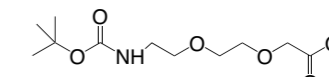
CAS-No. 108466-89-3
Formula $C_{11}H_{21}NO_6$
Mol. weight 263,29 g/mol



BAA1466 Boc-O₂Oc-OH*DCHA

8-(*t*-Butyloxycarbonyl-amino)-3,6-dioxaoctanoic acid dicyclohexylammonium salt

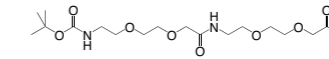
CAS-No. 560088-79-1
Formula $C_{11}H_{21}NO_6 \cdot C_{12}H_{23}N$
Mol. weight 263,29*181,32 g/mol



BAA1485 Boc-O₂Oc-O₂Oc-OH

17-(*t*-Butyloxycarbonyl-amino)-9-aza-3,6,12,15-tetraoxa-10-on-heptadecanoic acid

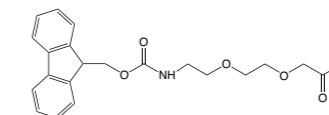
CAS-No. 1069067-08-8
Formula $C_{17}H_{32}N_2O_9$
Mol. weight 408,45 g/mol



FAA1435 Fmoc-O₂Oc-OH

8-(9-Fluorenylmethyloxycarbonyl-amino)-3,6-dioxoacetic acid

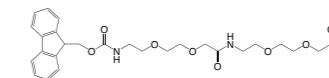
CAS-No. 166108-71-0
Formula $C_{21}H_{23}NO_6$
Mol. weight 385,42 g/mol



FAA1787 Fmoc-O₂Oc-O₂Oc-OH

17-(9-Fluorenylmethyloxycarbonyl-amino)-9-aza-3,6,12,15-tetraoxa-10-on-heptadecanoic acid

CAS-No. 560088-89-3
Formula $C_{27}H_{34}N_2O_9$
Mol. weight 530,58 g/mol



Available Building Blocks related to Tirzepatide

		Product details
<p>EAA1010 20-(OtBu)-20-oxoicosanoic acid</p> <p>20-(<i>tert</i>-Butoxy)-20-oxoicosanoic acid</p> <p>CAS-No. 683239-16-9</p> <p>Formula C₂₄H₄₆O₄</p> <p>Mol. weight 398,63 g/mol</p>		
<p>EAA1020 C20-OtBu-L-Glu-OtBu</p> <p>(S)-5-(<i>t</i>-butoxy)-4-(20-(<i>t</i>-butoxy)-20-oxoicosanamido)-5-oxopentanoic acid</p> <p>CAS-No. 1119061-70-9</p> <p>Formula C₃₃H₆₁NO₇</p> <p>Mol. weight 583,85 g/mol</p>		
<p>EAA1030 C20-OtBu-L-Glu(AEEA-AEEA-NHS)-OtBu</p> <p>21,41-di-<i>t</i>-butyl 1-(2,5-dioxopyrrolidin-1-yl) (S)-9,18,23-trioxo-2,5,11,14-tetraoxa-8,17,22-triazahentetracontane-1,21,41-tricarboxylate</p> <p>Formula C₄₉H₈₆N₄O₁₅</p> <p>Mol. weight 971,24 g/mol</p>		
<p>EAA1040 C20-OtBu-L-Glu(AEEA-AEEA)-OtBu</p> <p>21,41-di-<i>t</i>-butyl (S)-9,18,23-trioxo-2,5,11,14-tetraoxa-8,17,22-triazahentetracontane-1,21,41-tricarboxylate</p> <p>CAS-No. 1188328-37-1</p> <p>Formula C₄₅H₈₃N₃O₁₃</p> <p>Mol. weight 874,17 g/mol</p>		
<p>FAA9210 Fmoc-L-Lys[C20-OtBu-L-Glu(OtBu)-AA-AA]-OH</p> <p>(2S,52S)-52-(((9H-fluoren-9-yl)methoxy)carbonyl)amino)-25-(<i>tert</i>-butoxycarbonyl)-2,2-dimethyl-4,23,28,37,46-pentaoxo-3,32,35,41,44-pentaoxa-24,29,38,47-tetraazatripentacontan-53-ic acid</p> <p>CAS-No. 2460751-66-8</p> <p>Formula C₆₆H₁₀₅N₅O₁₆</p> <p>Mol. weight 1224,59 g/mol</p>		

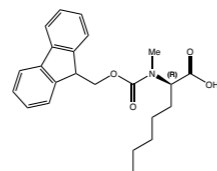
Fatty Amino Acids

		Product details
<p>BAA3700 Boc-L-Me2Ahp-OH</p> <p>(S)-2-((<i>t</i>-Butyloxycarbonyl)(methyl)amino)heptanoic acid</p> <p>CAS-No. 2389078-55-9</p> <p>Formula C₁₃H₂₅NO₄</p> <p>Mol. weight 259,34 g/mol</p>		
<p>BAA3790 Boc-D-Me2Ahp-OH</p> <p>(R)-2-((<i>t</i>-Butyloxycarbonyl)(methyl)amino)heptanoic acid</p> <p>CAS-No. 2389078-41-3</p> <p>Formula C₁₃H₂₅NO₄</p> <p>Mol. weight 259,34 g/mol</p>		
<p>BAA3800 Boc-L-Me2Aoc-OH</p> <p>(S)-2-((<i>t</i>-Butyloxycarbonyl)(methyl)amino)octanoic acid</p> <p>CAS-No. 1070433-21-4</p> <p>Formula C₁₄H₂₇NO₄</p> <p>Mol. weight 273,37 g/mol</p>		
<p>BAA3810 Boc-D-Me2Aoc-OH</p> <p>(R)-2-((<i>t</i>-Butyloxycarbonyl)(methyl)amino)octanoic acid</p> <p>CAS-No. 1070433-30-5</p> <p>Formula C₁₄H₂₇NO₄</p> <p>Mol. weight 273,37 g/mol</p>		
<p>BAA3820 Boc-L-Me2Anon-OH</p> <p>(S)-2-((<i>t</i>-Butyloxycarbonyl)(methyl)amino)nonanoic acid</p> <p>CAS-No. 2389078-56-0</p> <p>Formula C₁₅H₂₉NO₄</p> <p>Mol. weight 287,4 g/mol</p>		

		Product details	
<p>BAA3830 Boc-D-Me2Anon-OH (R)-2-((t-Butyloxycarbonyl)(methyl)amino)nonanoic acid CAS-No. 2389078-32-2 Formula C₁₅H₂₉NO₄ Mol. weight 287,4 g/mol</p>			
<p>BAA3840 Boc-L-Me2Adec-OH (S)-2-((t-Butyloxycarbonyl)(methyl)amino)decanoic acid CAS-No. 2389078-93-5 Formula C₁₆H₃₁NO₄ Mol. weight 301,42 g/mol</p>			
<p>BAA3850 Boc-D-Me2Adec-OH (R)-2-((t-Butyloxycarbonyl)(methyl)amino)decanoic acid CAS-No. 2389078-12-8 Formula C₁₆H₃₁NO₄ Mol. weight 301,43 g/mol</p>			
<p>BAA3860 Boc-L-Me2Aund-OH (S)-2-((t-Butyloxycarbonyl)(methyl)amino)undecanoic acid CAS-No. 2389078-64-0 Formula C₁₇H₃₃NO₄ Mol. weight 315,45 g/mol</p>			
<p>BAA3870 Boc-D-Me2Aund-OH (R)-2-((t-Butyloxycarbonyl)(methyl)amino)undecanoic acid CAS-No. 2389078-22-0 Formula C₁₇H₃₃NO₄ Mol. weight 315,45 g/mol</p>			
<p>BAA3880 Boc-L-Me2Ado-OH (S)-2-((t-Butyloxycarbonyl)(methyl)amino)dodecanoic acid CAS-No. 2389078-48-0 Formula C₁₈H₃₅NO₄ Mol. weight 329,47 g/mol</p>			

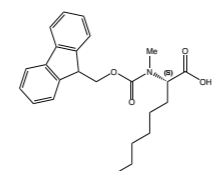
		Product details	
<p>BAA3890 Boc-D-Me2Ado-OH (R)-2-((t-Butyloxycarbonyl)(methyl)amino)dodecanoic acid CAS-No. 2389078-69-5 Formula C₁₈H₃₅NO₄ Mol. weight 329,47 g/mol</p>			
<p>FAA7260 Fmoc-L-Me2Aund-OH (S)-2-((9-Fluorenylmethyloxycarbonyl)(methyl)amino)undecanoic acid CAS-No. 2389078-72-0 Formula C₂₇H₃₅NO₄ Mol. weight 437,57 g/mol</p>			
<p>FAA7270 Fmoc-D-Me2Anon-OH (R)-2-((9-Fluorenylmethyloxycarbonyl)(methyl)amino)nonanoic acid CAS-No. 2389078-99-1 Formula C₂₅H₃₁NO₄ Mol. weight 409,52 g/mol</p>			
<p>FAA7280 Fmoc-L-Me2Adec-OH (S)-2-((9-Fluorenylmethyloxycarbonyl)(methyl)amino)decanoic acid CAS-No. 2389078-80-0 Formula C₂₆H₃₃NO₄ Mol. weight 423,54 g/mol</p>			
<p>FAA7290 Fmoc-D-Me2Adec-OH (R)-2-((9-Fluorenylmethyloxycarbonyl)(methyl)amino)decanoic acid CAS-No. 2389078-19-5 Formula C₂₆H₃₃NO₄ Mol. weight 423,54 g/mol</p>			
<p>FAA7300 Fmoc-L-Me2Anon-OH (S)-2-((9-Fluorenylmethyloxycarbonyl)(methyl)amino)nonanoic acid CAS-No. 2389078-35-5 Formula C₂₅H₃₁NO₄ Mol. weight 409,52 g/mol</p>			

FAA7320 Fmoc-D-Me2Ahp-OH
 (R)-2-((9-Fluorenylmethyloxycarbonyl)(methyl)amino)heptanoic acid
 CAS-No. 2389078-52-6
 Formula $C_{23}H_{27}NO_4$
 Mol. weight 381,46 g/mol

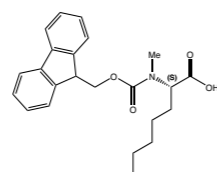


Product details

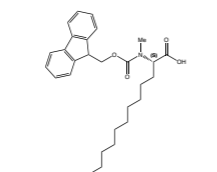
FAA7330 Fmoc-L-Me2Aoc-OH
 (S)-2-((9-Fluorenylmethyloxycarbonyl)(methyl)amino)octanoic acid
 CAS-No. 2389078-28-6
 Formula $C_{24}H_{29}NO_4$
 Mol. weight 395,49 g/mol



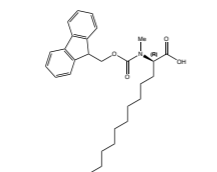
FAA7390 Fmoc-L-Me2Ahp-OH
 (S)-2-((9-Fluorenylmethyloxycarbonyl)(methyl)amino)heptanoic acid
 CAS-No. 2642726-02-9
 Formula $C_{23}H_{27}NO_4$
 Mol. weight 381,46 g/mol



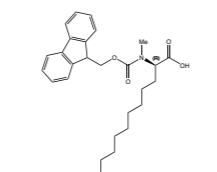
FAA7410 Fmoc-L-Me2Ado-OH
 (S)-2-((9-Fluorenylmethyloxycarbonyl)(methyl)amino)dodecanoic acid
 CAS-No. 2389079-01-8
 Formula $C_{28}H_{37}NO_4$
 Mol. weight 451,6 g/mol



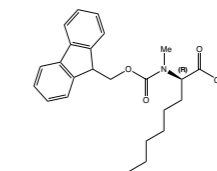
FAA7420 Fmoc-D-Me2Ado-OH
 (R)-2-((9-Fluorenylmethyloxycarbonyl)(methyl)amino)dodecanoic acid
 CAS-No. 2389078-21-9
 Formula $C_{28}H_{37}NO_4$
 Mol. weight 451,6 g/mol



FAA7430 Fmoc-D-Me2Aund-OH
 (R)-2-((9-Fluorenylmethyloxycarbonyl)(methyl)amino)undecanoic acid
 CAS-No. 2389078-36-6
 Formula $C_{27}H_{35}NO_4$
 Mol. weight 437,57 g/mol

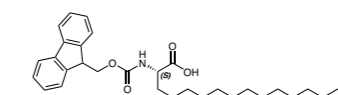


FAA7440 Fmoc-D-Me2Aoc-OH
 (R)-2-((9-Fluorenylmethyloxycarbonyl)(methyl)amino)octanoic acid
 CAS-No. 2389078-83-3
 Formula $C_{24}H_{29}NO_4$
 Mol. weight 395,49 g/mol

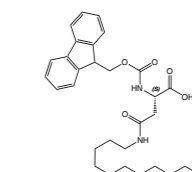


Product details

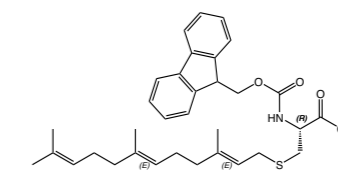
FAA8540 Fmoc-L-2AHe-OH
 (S)-N-(9-Fluorenylmethyloxycarbonyl)-2-amino-hexadecanoic acid
 CAS-No. 193885-60-8
 Formula $C_{31}H_{43}NO_4$
 Mol. weight 493,68 g/mol



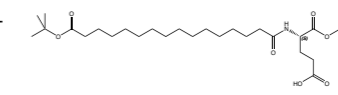
FAA7870 Fmoc-L-Asn(lauryl)-OH
 N-alpha-(9-Fluorenylmethyloxycarbonyl)-N-beta-lauryl-L-asparagine
 CAS-No. 843663-82-1
 Formula $C_{31}H_{42}N_2O_5$
 Mol. weight 522,68 g/mol



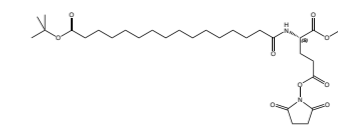
FAA7890 Fmoc-L-Cys(farnesyl)-OH
 N-alpha-(9-Fluorenylmethyloxycarbonyl)-S-farnesyl-L-cysteine
 CAS-No. 876312-47-9
 Formula $C_{33}H_{41}NO_4S$
 Mol. weight 547,75 g/mol



PAA2010 C16-OtBu-L-Glu-OtBu
 (S)-5-(t-butoxy)-4-(16-(t-butoxy)-16-oxohexadecanamido)-5-oxopentanoic acid
 Formula $C_{29}H_{53}NO_7$
 Mol. weight 527,74 g/mol



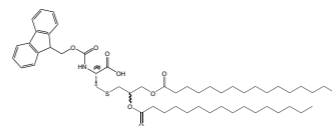
PAA2020 C16-OtBu-L-Glu(NHS)-OtBu
 1-(t-butyl) 5-(2,5-dioxopyrrolidin-1-yl) (16-(t-butoxy)-16-oxohexadecanoyl)-L-glutamate
 CAS-No. 843666-26-2
 Formula $C_{33}H_{56}N_2O_9$
 Mol. weight 624,82 g/mol



FAA7900 Fmoc-L-Cys(glycyl-bis-palmityl)-OH

N-(((9H-fluoren-9-yl)methoxy)carbonyl)-S-(2,3-bis(palmitoyloxy)propyl)-L-cysteine

CAS-No. 210532-98-2
Formula $C_{53}H_{83}NO_8S$
Mol. weight 894,31 g/mol

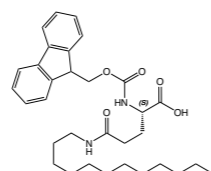


Product details

FAA7880 Fmoc-L-Gln(lauryl)-OH

N-alpha-(9-Fluorenylmethyloxycarbonyl)-N-gamma-lauryl-L-glutamine

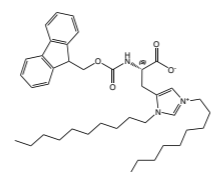
Formula $C_{32}H_{44}N_2O_5$
Mol. weight 536,7 g/mol



FAA7910 Fmoc-L-His(bis-decyl)-O*2HCl

N-alpha-(9-Fluorenylmethyloxycarbonyl)-N'im,N'im-bisdecyl-L-histidinium dihydrochloride

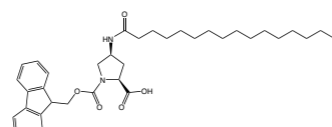
CAS-No. 1469805-17-1
Formula $C_{41}H_{59}N_3O_4 \cdot 2HCl$
Mol. weight 657,92*72,91 g/mol



FAA8895 Fmoc-L-Pro(4-NH-Pal)-OH (2S,4S)

(2S,4S)-1-(((9H-fluoren-9-yl)methoxy)carbonyl)-4-palmitamidopyrrolidine-2-carboxylic acid

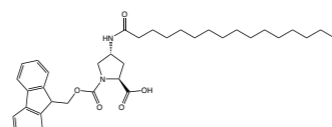
CAS-No. 458547-19-8
Formula $C_{36}H_{50}N_2O_5$
Mol. weight 590,81 g/mol



FAA8900 Fmoc-L-Pro(4-NH-Pal)-OH (2S,4R)

(2S,4R)-1-(((9H-fluoren-9-yl)methoxy)carbonyl)-4-palmitamidopyrrolidine-2-carboxylic acid

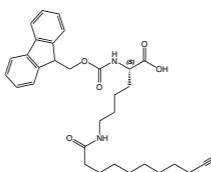
Formula $C_{36}H_{50}N_2O_5$
Mol. weight 590,81 g/mol



FAA8190 Fmoc-L-Lys(Undecynoyl)-OH

N-alpha-(9-Fluorenylmethyloxycarbonyl)-N-epsilon-lon-(10-undecynoyl)-L-lysine

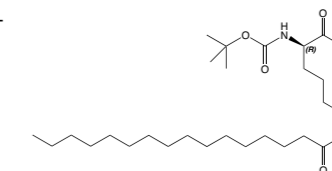
CAS-No. 2576507-95-2
Formula $C_{32}H_{46}N_2O_5$
Mol. weight 532,68 g/mol



BAA1479 Boc-D-Lys(Palm)-OH

N-alpha-t-Butyloxycarbonyl-N-epsilon-palmitoyl-D-lysine

CAS-No. 1301706-37-5
Formula $C_{27}H_{52}N_2O_5$
Mol. weight 484,73 g/mol

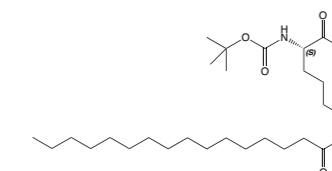


Product details

BAA1480 Boc-L-Lys(Palm)-OH

N-alpha-t-Butyloxycarbonyl-N-epsilon-palmitoyl-L-lysine

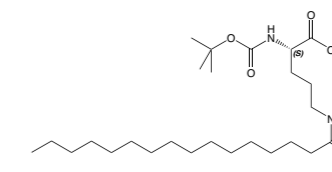
CAS-No. 59515-45-6
Formula $C_{27}H_{52}N_2O_5$
Mol. weight 484,73 g/mol



BAA1481 Boc-L-Orn(Palm)-OH

N-alpha-t-Butyloxycarbonyl-N-delta-palmitoyl-L-ornithine

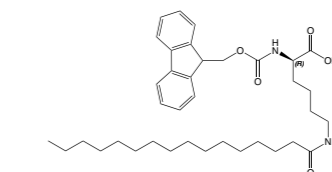
Formula $C_{26}H_{50}N_2O_5$
Mol. weight 470,7 g/mol



FAA1776 Fmoc-D-Lys(Palm)-OH

N-alpha-(9-Fluorenylmethyloxycarbonyl)-N-epsilon-lon-palmitoyl-D-lysine

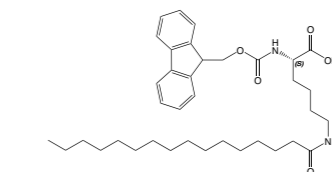
CAS-No. 1301706-55-7
Formula $C_{37}H_{54}N_2O_5$
Mol. weight 606,85 g/mol



FAA1778 Fmoc-L-Lys(Palm)-OH

N-alpha-(9-Fluorenylmethyloxycarbonyl)-N-epsilon-lon-palmitoyl-L-lysine

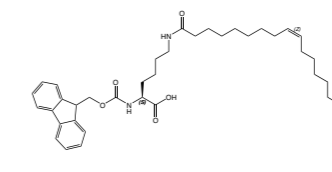
CAS-No. 201004-46-8
Formula $C_{37}H_{54}N_2O_5$
Mol. weight 606,85 g/mol



FAA8925 Fmoc-L-Lys(Oleoyl)-OH

N2-(((9H-fluoren-9-yl)methoxy)carbonyl)-N6-oleoyl-L-lysine

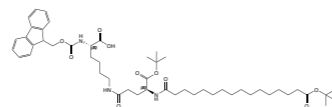
Formula $C_{39}H_{56}N_2O_5$
Mol. weight 632,89 g/mol



FAA8980 Fmoc-L-Lys(tBuO-Thap-L-Glu-OtBu)-OH

N2-(((9H-fluoren-9-yl)methoxy)carbonyl)-N6-((S)-5-(tert-butoxy)-4-(16-(tert-butoxy)-16-oxohexadecanamido)-5-oxopentanoyl)-L-lysine

CAS-No. 1671100-52-9
Formula $C_{50}H_{75}N_3O_{10}$
Mol. weight 878,16 g/mol

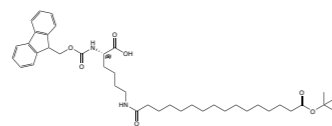


Product details

FAA8990 Fmoc-L-Lys(tBuO-Thap)-OH

N2-(((9H-fluoren-9-yl)methoxy)carbonyl)-N6-(16-(tert-butoxy)-16-oxohexadecanoyl)-L-lysine

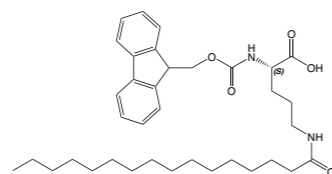
Formula $C_{41}H_{60}N_2O_7$
Mol. weight 692,94 g/mol



FAA1779 Fmoc-L-Orn(Palm)-OH

N-alpha-(9-Fluorenylmethyloxycarbonyl)-N-delta-palmitoyl-L-ornithine

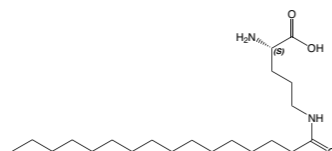
CAS-No. 1301706-41-1
Formula $C_{36}H_{52}N_2O_5$
Mol. weight 592,83 g/mol



HAA1589 H-L-Orn(Palm)-OH

N-epsilon-Palmitoyl-L-ornithine

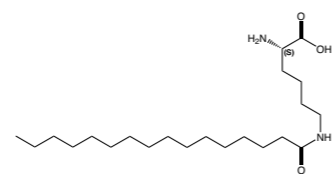
Formula $C_{21}H_{42}N_2O_3$
Mol. weight 370,58 g/mol



HAA3090 H-L-Lys(Palm)-OH

N-epsilon-Palmitoyl-L-lysine

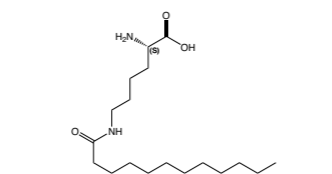
CAS-No. 59012-43-0
Formula $C_{22}H_{44}N_2O_3$
Mol. weight 384,61 g/mol



HAA4020 H-L-Lys(lauroyl)-OH

N-epsilon-Lauroyl-L-lysine

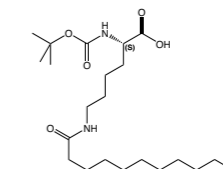
CAS-No. 52315-75-0
Formula $C_{18}H_{36}N_2O_3$
Mol. weight 328,49 g/mol



BAA3660 Boc-L-Lys(lauroyl)-OH

N-alpha-t-butylloxycarbonyl-N-epsilon-lauroyl-L-lysine

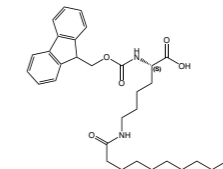
CAS-No. 702706-14-7
Formula $C_{23}H_{44}N_2O_5$
Mol. weight 428,61 g/mol



FAA7500 Fmoc-L-Lys(lauroyl)-OH

N-alpha-(9-Fluorenylmethyloxycarbonyl)-N-epsilon-lauroyl-L-lysine

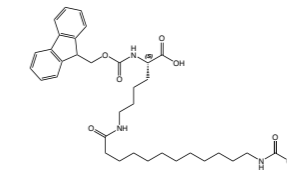
CAS-No. 1128181-21-4
Formula $C_{33}H_{46}N_2O_5$
Mol. weight 550,73 g/mol



FAA7780 Fmoc-L-Lys(12-BocNH-lauroyl)-OH

N-alpha-(9-Fluorenylmethyloxycarbonyl)-N-epsilon-lon-(12-(t-butylloxycarbonylamino)lauroyl)-L-lysine

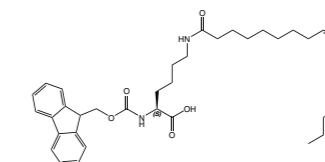
CAS-No. 2576507-92-9
Formula $C_{38}H_{55}N_3O_7$
Mol. weight 665,86 g/mol



FAA9195 Fmoc-L-Lys(Linoleyl)-OH

N2-(((9H-fluoren-9-yl)methoxy)carbonyl)-N6-((9Z,12Z)-octadeca-9,12-dienoyl)-L-lysine

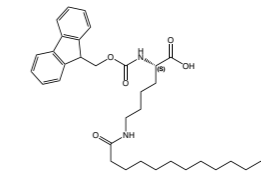
Formula $C_{39}H_{54}N_2O_5$
Mol. weight 630,87 g/mol



FAA7490 Fmoc-L-Lys(Myristoyl)-OH

N-alpha-(9-Fluorenylmethyloxycarbonyl)-N-epsilon-lon-myristoyl-L-lysine

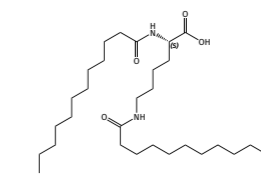
CAS-No. 1128181-23-6
Formula $C_{35}H_{50}N_2O_5$
Mol. weight 578,78 g/mol



HAA4030 Lauroyl-L-Lys(Lauroyl)-OH

N-alpha,N-epsilon-Bis(dodecanoyl)-L-lysine

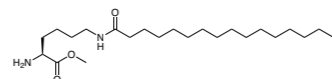
CAS-No. 14379-54-5
Formula $C_{30}H_{58}N_2O_4$
Mol. weight 510,79 g/mol



HAA9225 H-L-Lys(Palm)-OMe*HCl

Methyl N-epsilon-palmitoyl-L-lysine hydrochloride

CAS-No. 890026-44-5
Formula C₂₃H₄₆N₂O₃*HCl
Mol. weight 398,63*36,46 g/mol

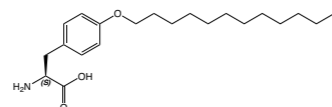


Product details

HAA9325 H-L-Tyr(Lauryl)-OH*HCl

O-dodecyl-L-Tyrosine hydrochloride

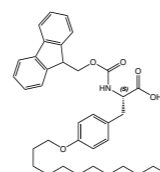
CAS-No. 199125-95-6 (net)
Formula C₂₁H₃₅NO₃*HCl
Mol. weight 349,51*36,46 g/mol



FAA7860 Fmoc-L-Tyr(lauryl)-OH

N-alpha-(9-Fluorenylmethyloxycarbonyl)-O-lauryl-L-tyrosine

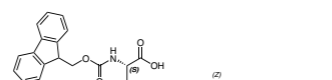
CAS-No. 2576508-15-9
Formula C₃₆H₄₅NO₅
Mol. weight 571,75 g/mol



FAA8545 Fmoc-L-2Aod-OH

(S)-N-(9-Fluorenylmethyloxycarbonyl)-L-2-amino-octadec-9-enoic acid

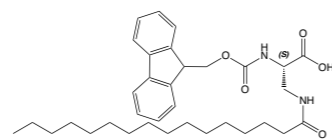
Formula C₃₃H₄₅NO₄
Mol. weight 519,73 g/mol



FAA1935 Fmoc-L-Dap(Palm)-OH

N-alpha-(9-Fluorenylmethyloxycarbonyl)-N-beta-palmitoyl-L-2,3-diaminopropionic acid

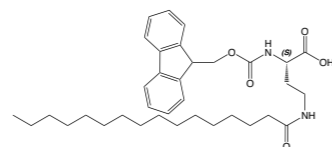
CAS-No. 724785-41-5
Formula C₃₄H₄₈N₂O₅
Mol. weight 564,76 g/mol



FAA1940 Fmoc-L-Dab(Palm)-OH

N-alpha-(9-Fluorenylmethyloxycarbonyl)-N-gamma-palmitoyl-L-2,4-diaminobutyric acid

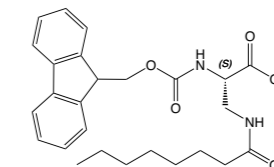
CAS-No. 1858224-29-9
Formula C₃₅H₅₀N₂O₅
Mol. weight 578,78 g/mol



FAA1945 Fmoc-L-Dap(Octanoyl)-OH

N-alpha-(9-Fluorenylmethyloxycarbonyl)-N-beta-octanoyl-L-2,3-diaminopropionic acid

CAS-No. 1423018-04-5
Formula C₂₆H₃₂N₂O₅
Mol. weight 452,54 g/mol

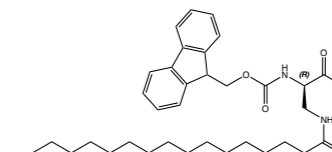


Product details

FAA6960 Fmoc-D-Dap(Palm)-OH

N-alpha-(9-Fluorenylmethyloxycarbonyl)-N-beta-palmitoyl-D-2,3-diaminopropionic acid

CAS-No. 2389078-17-3
Formula C₃₄H₄₈N₂O₅
Mol. weight 564,76 g/mol

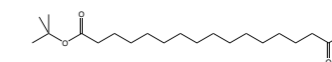


Fatty Acid Derivatives

PAA2025 Hexadecanedioic acid, mono tBu ester

16-(t-butoxy)-16-oxohexadecanoic acid

CAS-No. 843666-27-3
Formula C₂₀H₃₈O₄
Mol. weight 342,52 g/mol

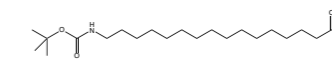


Product details

BAA3900 16-(Boc-amino)-palmitic acid

16-((t-Butyloxycarbonyl)amino)hexadecanoic acid

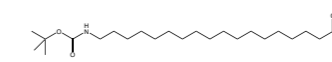
CAS-No. 135747-73-8
Formula C₂₁H₄₁NO₄
Mol. weight 371,55 g/mol



BAA3910 18-(Boc-amino)-stearic acid

18-((t-Butyloxycarbonyl)amino)octadecanoic acid

CAS-No. 2389064-45-1
Formula C₂₃H₄₅NO₄
Mol. weight 399,61 g/mol



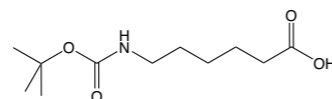
BAA1336 Boc-6-Ahx-OH

N-t-Butyloxycarbonyl-6-amino-hexanoic acid

CAS-No. 6404-29-1

Formula $C_{11}H_{21}NO_4$

Mol. weight 231,28 g/mol



Product details



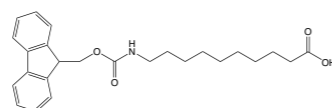
FAA1633 Fmoc-10-Adc-OH

N-(9-Fluorenylmethyloxycarbonyl)-10-amino-decanoic acid

CAS-No. 143688-82-8

Formula $C_{25}H_{31}NO_4$

Mol. weight 409,52 g/mol



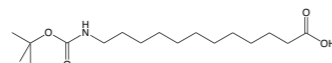
BAA1323 Boc-12-Ado-OH

N-t-Butyloxycarbonyl-12-amino-dodecanoic acid

CAS-No. 18934-81-1

Formula $C_{17}H_{33}NO_4$

Mol. weight 315,44 g/mol



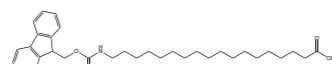
FAA7450 18-(Fmoc-amino)-stearic acid

18-((9-Fluorenylmethyloxycarbonyl)amino)octadecanoic acid

CAS-No. 1199580-37-4

Formula $C_{33}H_{47}NO_4$

Mol. weight 521,73 g/mol



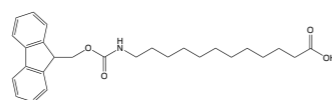
FAA1635 Fmoc-12-Ado-OH

N-(9-Fluorenylmethyloxycarbonyl)-12-amino-dodecanoic acid

CAS-No. 128917-74-8

Formula $C_{27}H_{35}NO_4$

Mol. weight 437,56 g/mol



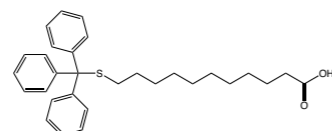
RL-2750 Trt-S-C10H20-CO2H

11-Tritylsulfanyl-undecanoic acid

CAS-No. 202462-83-7

Formula $C_{30}H_{36}O_2S$

Mol. weight 460,67 g/mol



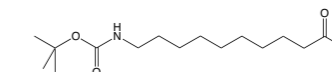
BAA1321 Boc-10-Adc-OH

N-t-Butyloxycarbonyl-10-amino-decanoic acid

CAS-No. 173606-50-3

Formula $C_{15}H_{29}NO_4$

Mol. weight 287,4 g/mol



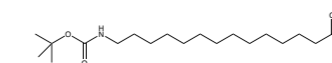
BAA4240 14-(Boc-amino)-myristic acid

14-((t-Butyloxycarbonyl)amino)tetradecanoic acid

CAS-No. 2307778-46-5

Formula $C_{19}H_{37}NO_4$

Mol. weight 343,51 g/mol



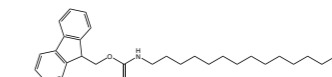
FAA8160 14-(Fmoc-amino)-myristic acid

14-((9-Fluorenylmethyloxycarbonyl)amino)tetradecanoic acid

CAS-No. 1931109-55-5

Formula $C_{29}H_{39}NO_4$

Mol. weight 465,63 g/mol



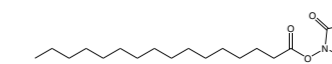
RL-3810 NHS-palmitic acid

N-(palmitoyloxy)-succinimide

CAS-No. 14464-31-4

Formula $C_{20}H_{35}NO_4$

Mol. weight 353,50 g/mol



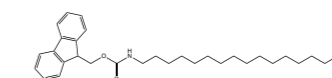
FAA7460 16-(Fmoc-amino)-palmitic acid

16-((9-Fluorenylmethyloxycarbonyl)amino)hexadecanoic acid

CAS-No. 1356220-22-8

Formula $C_{31}H_{43}NO_4$

Mol. weight 493,68 g/mol



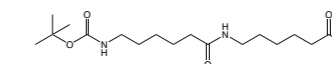
BAA4870 Boc-Aca-Aca-OH

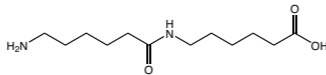

N-Boc-6-(6-Aminohexanamido)hexanoic acid

CAS-No. 14254-45-6

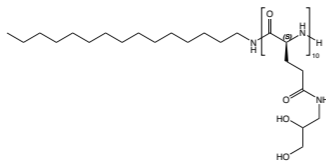

Formula $C_{17}H_{32}N_2O_5$

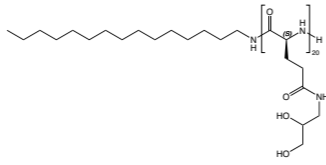

Mol. weight 344,45 g/mol

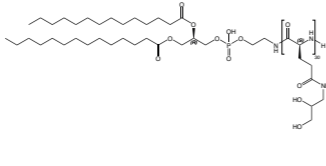



<p>HAA9300 H-Aca-Aca-OH</p> <p>6-(6-Amino)hexanamido)hexanoic acid</p> <p>CAS-No. 2014-58-6</p> <p>Formula C₁₂H₂₄N₂O₃</p> <p>Mol. weight 244,34 g/mol</p>		<p>Product details</p> 
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Lipidated Poly Amino Acids

<p>PGA1880 C14-[PGA(DIOL)]₁₀-H</p> <p>(Tetradecylamine)-poly-L-glutamic acid(gamma-dihydroxypropylamide)acetamide</p> <p>Mol. weight 2000 Da</p>		<p>Product details</p> 
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<p>PGA1890 C14-[PGA(DIOL)]₂₀-H</p> <p>(Tetradecylamine)-poly-L-glutamic acid(gamma-dihydroxypropylamide)acetamide</p> <p>Mol. weight 4000 Da</p>		
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<p>PGA1920 DMPE-[PGA(DIOL)]₃₀-H</p> <p>(1,2-Dimyristoyl-glycero-3-phosphoethanolamine)-poly-L-glutamic acid(gamma-dihydroxypropylamide)acetamide</p> <p>Mol. weight 7000 Da</p>		
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