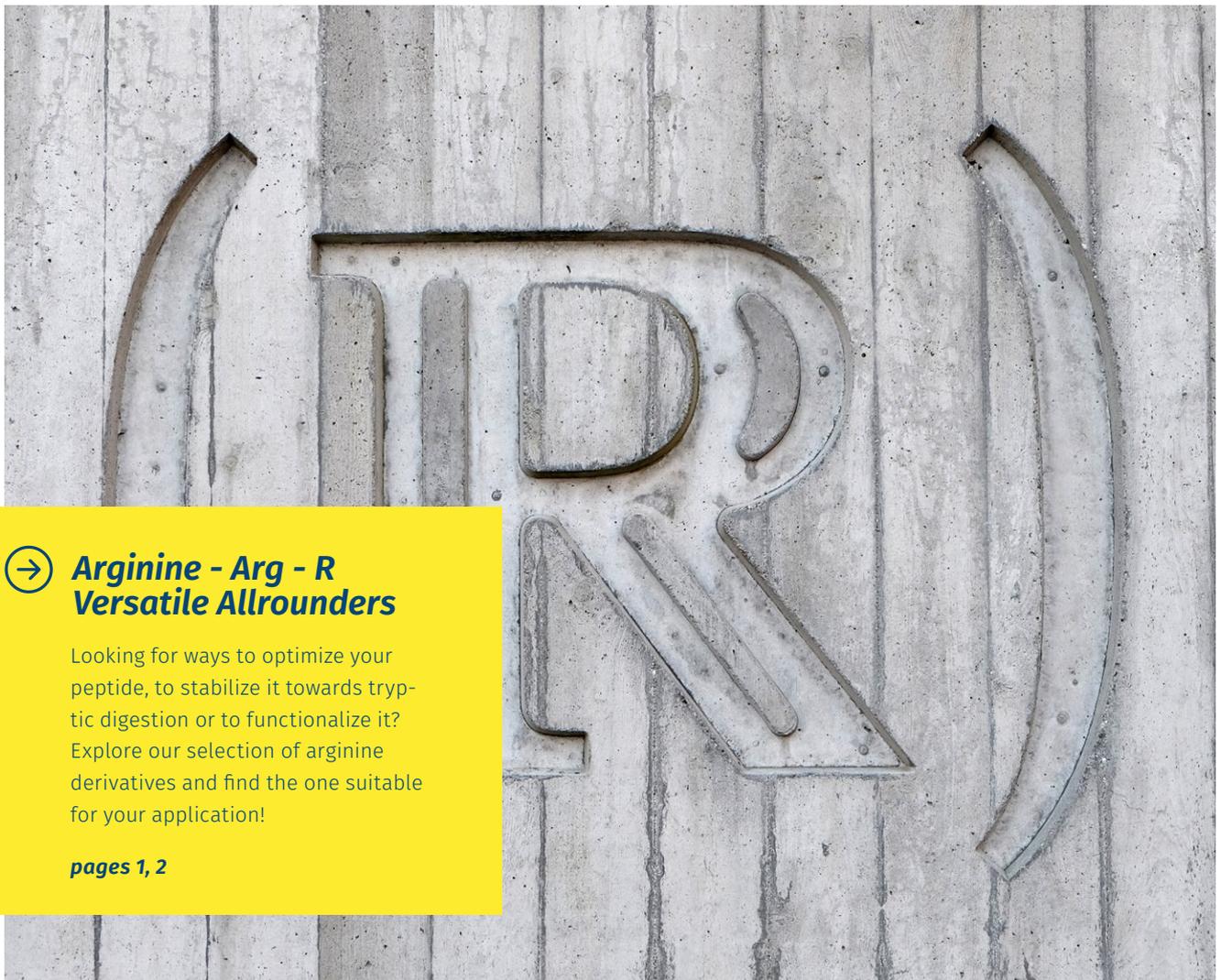


ARGININE

Homologues and Building Blocks



→ **Arginine - Arg - R** **Versatile Allrounders**

Looking for ways to optimize your peptide, to stabilize it towards tryptic digestion or to functionalize it? Explore our selection of arginine derivatives and find the one suitable for your application!

pages 1, 2

Short arginines - Increasing proteolytic stability.

page 1

Bioisosteric replacement of the Arg guanidino group by carbamoylation.

page 2

Guanidino prolines as rigid Arg mimics.

page 2



Arginine Homologues

and Building Blocks

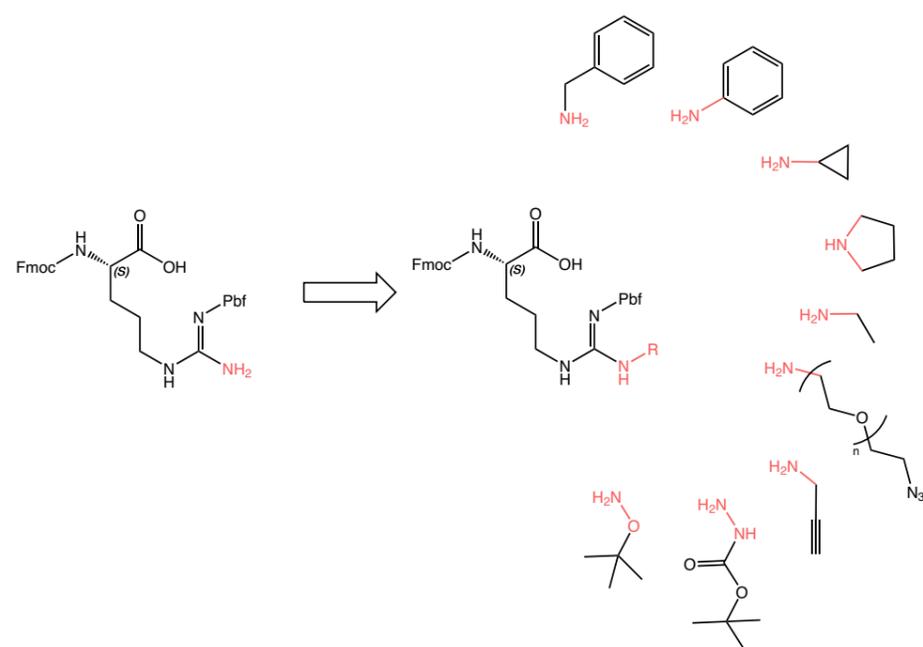
General Information

Arginine is characterized by its amphiphilic side chain, with a C3 alkyl chain terminated by a positively charged guanidino group. Since the latter can undergo hydrogen bonding as well as ionic interactions with binding partners, arginine residues are frequently involved in cellular recognition processes. Consequently, derivatives of arginine are highly sought after, be it for the introduction of Arg-mimetics to improve pharmacokinetic properties of therapeutic peptides, or to introduce an Arg derivative suitable for site-selective modification. One potential application of such Arg derivatives is the conjugation of fluorophores or radionuclide-bearing moieties to the N ω -carbamoyl residue in order to generate labeled probes.

Short Arginines - Increasing Proteolytic Stability

Trypsin, an endopeptidase and natural protease found in the digestive system, cleaves peptide chains and proteins predominantly at the carboxyl side of the amino acids lysine and arginine (except when followed by proline) – one drawback limiting the activity and bioavailability of peptide drugs resulting in unfavorable pharmacokinetics.

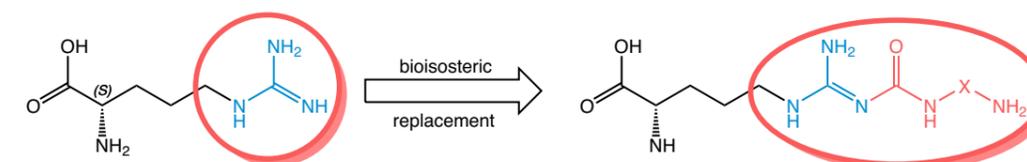
Iris Biotech offers shorter arginine homologues, which have been shown to increase a peptide's stability towards tryptic digestion. Similar effects have been observed whenever the guanidine side chain has been modified.



Selection of derivatives of arginine accessible through our synthetic approach.

Bioisosteric Replacement

Typically, the most frequently used sidechains for the derivatization of peptides and proteins are those of cysteine and lysine. As numerous biologically active peptides are lacking those amino acids, but contain arginine, an innovative derivatization strategy for arginine containing peptides was developed. Therefore, the guanidino group is bioisosterically replaced by an amino-functionalized, N ω -carbamoylated arginine resulting in lowered basicity compared to the unsubstituted guanidine group while remaining basic enough ($pK_a \sim 8$) to be protonated at physiological pH. Furthermore, the carbamoyl-guanidine group is a chemically stable structure.

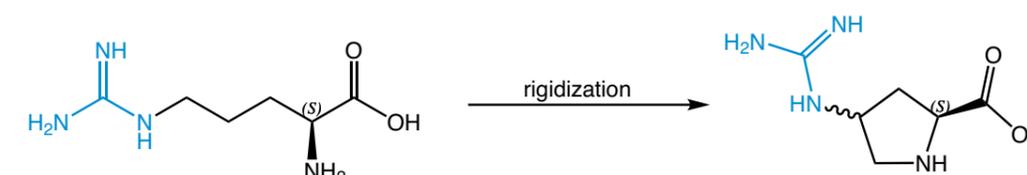


Chemical structure of bioisosterically replaced arginine.

Iris Biotech offers N α -Fmoc protected, N ω -carbamoylated arginine derivatives bearing Boc-protected terminal amino groups (FAA7210, FAA7220). Incorporation of those building blocks into peptides has been carried out by SPPS using standard coupling reagents (HBTU/HOBt or PyBOP/HOBt, DIPEA as base, DMF/NMP 80/20 as solvent).

Guanidino Proline Derivatives

In addition, our portfolio includes guanidino proline derivatives as rigid arginine mimics suitable for the investigation of structure/activity relationships.



Guanidino proline derivatives.

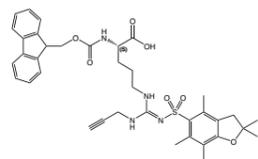


Check out our products listed below to find the Arg derivative suitable for your application!

FAA7400 Fmoc-L-Arg(Propargyl,Pbf)-OH

N-alpha-(9-Fluorenylmethyloxycarbonyl)-N'-(2,2,4,6,7-pentamethyldihydrobenzofuran)-N''-propargyl-5-sulfonyl-L-arginine

Formula $C_{37}H_{42}N_4O_7S$
Mol. weight 686,82 g/mol

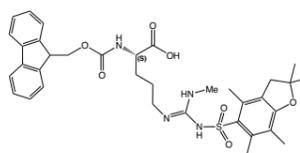


Product details

**FAA3360 Fmoc-L-Arg(Me,Pbf)-OH**

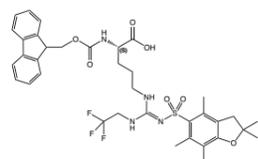
N-alpha-(9-Fluorenylmethyloxycarbonyl)-N'-methyl-N''-(2,2,4,6,7-pentamethyldihydrobenzofuran-5-sulfonyl)-L-arginine

CAS-No. 1135616-49-7
Formula $C_{35}H_{42}N_4O_7S$
Mol. weight 662,8 g/mol

**FAA1012 Fmoc-L-Arg(Tfe,Pbf)-OH**

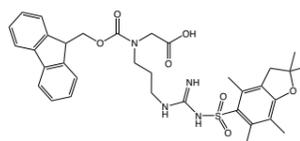
N-alpha-(9-Fluorenylmethyloxycarbonyl)-N'-trifluoroethyl-N''-(2,2,4,6,7-pentamethyldihydrobenzofuran-5-sulfonyl)-L-arginine

CAS-No. 1060769-47-2
Formula $C_{36}H_{41}F_3N_4O_7S$
Mol. weight 730,80 g/mol

**FAA4800 Fmoc-Narg(Pbf)-OH**

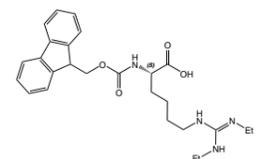
N-alpha-(9-Fluorenylmethyloxycarbonyl)-N-[3-(N'-(2,2,4,6,7-pentamethyldihydrobenzofuran-5-sulfonyl)-guanidino)-propyl]-glycine

CAS-No. 1820590-35-9
Formula $C_{34}H_{40}N_4O_7S$
Mol. weight 648,77 g/mol

**FAA7620 Fmoc-L-hArg(Et)2-OH*HCl**

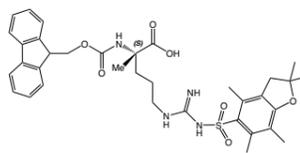
N-alpha-(9-Fluorenylmethyloxycarbonyl)-N,N'-diethyl-L-homoarginine hydrochloride

CAS-No. 1864003-26-8
Formula $C_{26}H_{34}N_4O_4 \cdot HCl$
Mol. weight 466,57*36,45 g/mol

**FAA2740 Fmoc-alpha-Me-L-Arg(Pbf)-OH**

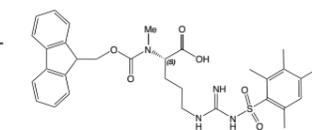
N-alpha-(9-Fluorenylmethyloxycarbonyl)-C-alpha-methyl-N'-(2,2,4,6,7-pentamethyldihydrobenzofuran-5-sulfonyl)-L-arginine

CAS-No. 2124196-74-1
Formula $C_{35}H_{42}N_4O_7S$
Mol. weight 662,8 g/mol

**FAA1604 Fmoc-L-MeArg(Mtr)-OH**

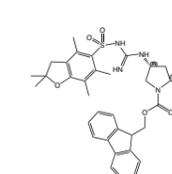
N-alpha-(9-Fluorenylmethyloxycarbonyl)-N-alpha-methyl-N'-(4-methoxy-2,3,6-trimethylbenzenesulfonyl)-L-arginine

CAS-No. 214750-72-8
Formula $C_{32}H_{38}N_4O_7S$
Mol. weight 622,74 g/mol

**FAA5220 Fmoc-L-Pro(4-guanidino-Pbf)-OH (2S,4R)**

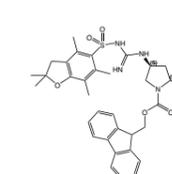
(2S,4R)-1-(9-Fluorenylmethyloxycarbonyl)-4-(3-(2,2,4,6,7-pentamethyl-2,3-dihydrobenzofuran-5-ylsulfonyl)guanidino)pyrrolidine-2-carboxylic acid

CAS-No. 1864002-98-1
Formula $C_{34}H_{38}N_4O_7S$
Mol. weight 646,75 g/mol

**FAA5230 Fmoc-L-Pro(4-guanidino-Pbf)-OH (2S,4S)**

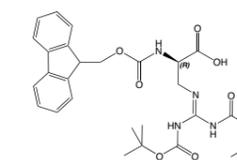
(2S,4S)-1-(9-Fluorenylmethyloxycarbonyl)-4-(3-(2,2,4,6,7-pentamethyl-2,3-dihydrobenzofuran-5-ylsulfonyl)guanidino)pyrrolidine-2-carboxylic acid

CAS-No. 2098497-04-0
Formula $C_{34}H_{38}N_4O_7S$
Mol. weight 646,75 g/mol

**FAA6190 Fmoc-D-Agp(Boc)2-OH**

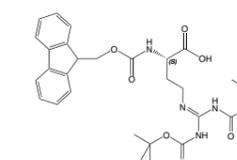
(R)-N-alpha-(9-Fluorenylmethyloxycarbonyl)-N,N'-bis-t-butylloxycarbonyl-2-amino-3-guanidino-propionic acid

CAS-No. 1263045-67-5
Formula $C_{29}H_{36}N_4O_8$
Mol. weight 568,63 g/mol

**FAA6160 Fmoc-L-Agb(Boc)2-OH**

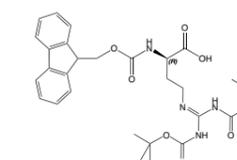
(S)-N-alpha-(9-Fluorenylmethyloxycarbonyl)-N,N'-bis-t-butylloxycarbonyl-2-amino-4-guanidino-butyric acid

CAS-No. 206183-06-4
Formula $C_{30}H_{38}N_4O_8$
Mol. weight 582,66 g/mol

**FAA6150 Fmoc-D-Agb(Boc)2-OH**

(R)-N-alpha-(9-Fluorenylmethyloxycarbonyl)-N,N'-bis-t-butylloxycarbonyl-2-amino-4-guanidino-butyric acid

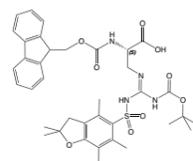
CAS-No. 1263047-29-5
Formula $C_{30}H_{38}N_4O_8$
Mol. weight 582,66 g/mol



FAA1773 Fmoc-L-Agp(Pbf,Boc)-OH

(S)-N-alpha-(9-Fluorenylmethyloxycarbonyl)-N-t-butylloxycarbonyl-N'-2,2,4,6,7-pentamethyldihydrobenzofuran-5-sulfonyl-2-amino-3-guanidino-propionic acid

Formula $C_{37}H_{44}N_4O_9S$
Mol. weight 720,83 g/mol

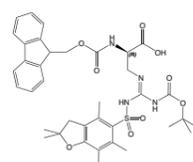


Product details

**FAA6191 Fmoc-D-Agp(Pbf,Boc)-OH**

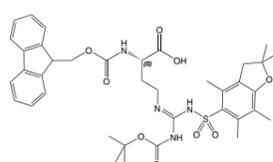
(R)-N-alpha-(9-Fluorenylmethyloxycarbonyl)-N-t-butylloxycarbonyl-N'-2,2,4,6,7-pentamethyldihydrobenzofuran-5-sulfonyl-2-amino-3-guanidino-propionic acid

Formula $C_{37}H_{44}N_4O_9S$
Mol. weight 720,83 g/mol

**FAA6161 Fmoc-L-Agb(Pbf,Boc)-OH**

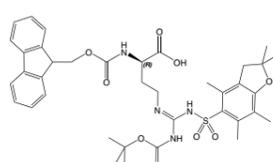
(S)-N-alpha-(9-Fluorenylmethyloxycarbonyl)-N-t-butylloxycarbonyl-N'-2,2,4,6,7-pentamethyldihydrobenzofuran-5-sulfonyl-2-amino-4-guanidino-butyric acid

CAS-No. 2612397-05-2
Formula $C_{38}H_{46}N_4O_9S$
Mol. weight 734,86 g/mol

**FAA6151 Fmoc-D-Agb(Pbf,Boc)-OH**

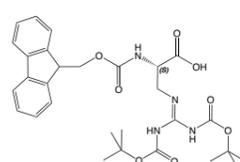
(R)-N-alpha-(9-Fluorenylmethyloxycarbonyl)-N-t-butylloxycarbonyl-N'-2,2,4,6,7-pentamethyldihydrobenzofuran-5-sulfonyl-2-amino-4-guanidino-butyric acid

CAS-No. 2612397-06-3
Formula $C_{38}H_{46}N_4O_9S$
Mol. weight 734,86 g/mol

**FAA1772 Fmoc-L-Agp(Boc)2-OH**

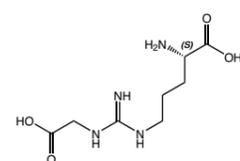
(S)-N-alpha-(9-Fluorenylmethyloxycarbonyl)-N,N'-bis-t-butylloxycarbonyl-2-amino-3-guanidino-propionic acid

CAS-No. 313232-63-2
Formula $C_{29}H_{36}N_4O_8$
Mol. weight 568,63 g/mol

**HAA9155 CMA**

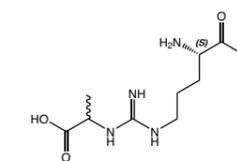
N-omega-Carboxymethyl-L-arginine

CAS-No. 278610-96-1
Formula $C_8H_{16}N_4O_4$
Mol. weight 232,24 g/mol

**HAA9160 CEA**

N-omega-Carboxyethyl-L-arginine (mixture of two diastereoisomers)

CAS-No. 861902-72-9
Formula $C_9H_{18}N_4O_4$
Mol. weight 246,27 g/mol

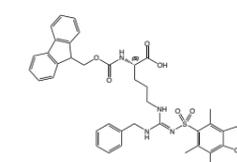


Product details

**FAA8275 Fmoc-L-Arg(Bzl)(Pbf)-OH**

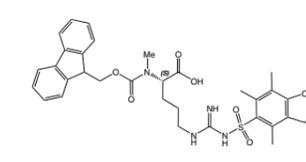
N-alpha-(9-Fluorenylmethyloxycarbonyl)-N'-(2,2,4,6,7-pentamethyldihydrobenzofuran)-N''-benzyl-5-sulfonyl-L-arginine

CAS-No. 1060769-38-1
Formula $C_{41}H_{46}N_4O_5S$
Mol. weight 738,9 g/mol

**FAA8310 Fmoc-L-MeArg(Pbf)-OH**

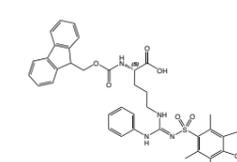
N-alpha-(9-Fluorenylmethyloxycarbonyl)-N-alpha-methyl-N'-(2,2,4,6,7-pentamethyldihydrobenzofuran-5-sulfonyl)-L-arginine

CAS-No. 913733-27-4
Formula $C_{35}H_{42}N_4O_5S$
Mol. weight 662,80 g/mol

**FAA8415 Fmoc-L-Arg(Ph,Pbf)-OH**

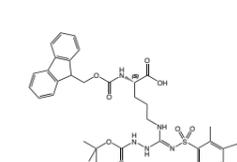
N-alpha-(9-Fluorenylmethyloxycarbonyl)-N'-(2,2,4,6,7-pentamethyldihydrobenzofuran)-N''-phenyl-5-sulfonyl-L-arginine

CAS-No. 1060769-49-4
Formula $C_{40}H_{44}N_4O_5S$
Mol. weight 724,87 g/mol

**FAA8265 Fmoc-L-Arg(Boc-NH)(Pbf)-OH**

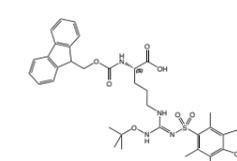
N-alpha-(9-Fluorenylmethyloxycarbonyl)-N'-(2,2,4,6,7-pentamethyldihydrobenzofuran)-N''-(t-butylloxycarbonylamino)-5-sulfonyl-L-arginine

CAS-No. 1060769-54-1
Formula $C_{39}H_{49}N_5H_5S$
Mol. weight 763,91 g/mol

**FAA8230 Fmoc-L-Arg(tBuO)(Pbf)-OH**

N-alpha-(9-Fluorenylmethyloxycarbonyl)-N'-(2,2,4,6,7-pentamethyldihydrobenzofuran)-N''-t-butoxy-5-sulfonyl-L-arginine

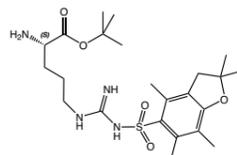
CAS-No. 1060769-55-2
Formula $C_{38}H_{48}N_4O_8S$
Mol. weight 720,88 g/mol



HAA3780 H-L-Arg(Pbf)-OtBu*HCl

N'-2,2,4,6,7-pentamethyldihydrobenzofuran-5-sulfonyl-L-arginine *t*-butyl ester hydrochloride

CAS-No. 1217317-67-3
Formula $C_{23}H_{38}N_4O_5S \cdot HCl$
Mol. weight 482,64*36,45 g/mol

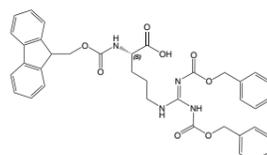


Product details

**FAA6240 Fmoc-L-Arg(Z)2-OH**

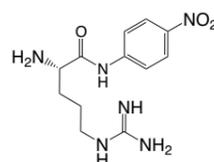
N-alpha-(9-Fluorenylmethyloxycarbonyl)-*N*'-bis-benzyloxycarbonyl-L-arginine

CAS-No. 207857-35-0
Formula $C_{37}H_{36}N_4O_8$
Mol. weight 664,71 g/mol

**HAA1177 H-L-Arg-pNA*2HBr**

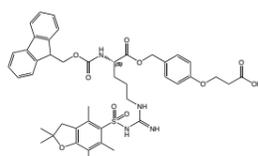
L-Arginine *p*-Nitroanilide dihydrobromide

CAS-No. 6154-84-3
Formula $C_{12}H_{18}N_6O_3 \cdot 2HBr$
Mol. weight 456,2 g/mol

**LW00203 Fmoc-L-Arg(Pbf)-MPPA**

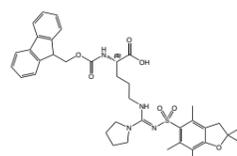
N-alpha-(9-Fluorenylmethyloxycarbonyl)-*N*'-2,2,4,6,7-pentamethyldihydrobenzofuran-5-sulfonyl-L-arginine-3-(4-oxymethylphenoxy)propionic acid

CAS-No. 1202179-60-9
Formula $C_{44}H_{50}N_4O_{10}S$
Mol. weight 826,96 g/mol

**FAA8270 Fmoc-L-Arg(Pyrrolidine)(Pbf)-OH**

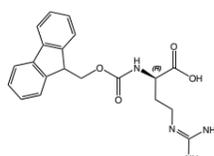
N-alpha-(9-Fluorenylmethyloxycarbonyl)-*N*'-(2,2,4,6,7-pentamethyldihydrobenzofuran)-*N*'-(1,4-butyldiene)-5-sulfonyl-L-arginine

CAS-No. 1060769-57-4
Formula $C_{38}H_{46}N_4O_5S$
Mol. weight 702,87 g/mol

**FAA7680 Fmoc-D-Agb-OH*HCl**

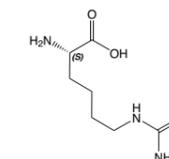
(*R*)-*N*-alpha-(9-Fluorenylmethyloxycarbonyl)-2-amino-4-guanidino-butyric acid hydrochloride

CAS-No. 2741370-51-2 net
Formula $C_{20}H_{22}N_4O_4 \cdot HCl$
Mol. weight 382,41*36,45 g/mol

**HAA1225 H-L-HArg-OH*HCl**

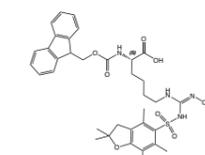
(*S*)-2-Amino-6-guanidinohexanoic acid hydrochloride

CAS-No. 1483-01-8
Formula $C_7H_{16}N_4O_2 \cdot HCl$
Mol. weight 188,23*36,45 g/mol

**FAA8355 Fmoc-L-HomoArg(OtBu,Pbf)-OH**

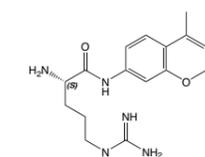
N-alpha-(9-Fluorenylmethyloxycarbonyl)-*N*'-t-butoxy-*N*'-(2,2,4,6,7-pentamethyldihydrobenzofuran-5-sulfonyl)-L-homoarginine

CAS-No. 1538609-45-8
Formula $C_{39}H_{50}N_4O_6S$
Mol. weight 734,91 g/mol

**HAA7630 H-L-Arg-AMC*2HCl**

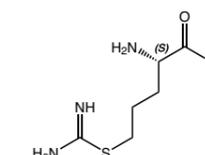
L-Arginine 7-amido-4-methylcoumarin dihydrochloride

CAS-No. 113712-08-6
Formula $C_{16}H_{21}N_3O_3 \cdot 2HCl$
Mol. weight 331,37*72,90 g/mol

**HAA9165 L-Thioarginine**

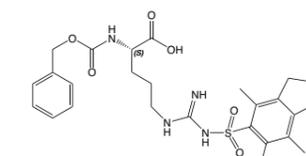
(2*S*)-2-amino-5-(carbamidoylsulfonyl)pentanoic acid

CAS-No. 190374-70-0
Formula $C_6H_{13}N_3O_3S$
Mol. weight 191,25 g/mol

**ZAA1131 Z-L-Arg(Pbf)-OH*CHA**

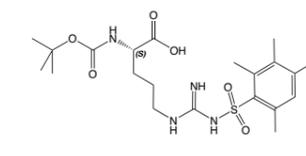
N-alpha-Benzyloxycarbonyl-*N*'-2,2,4,6,7-pentamethyldihydrobenzofuran-5-sulfonyl-L-arginine cyclohexylamine

CAS-No. 200190-89-2
Formula $C_{27}H_{36}N_4O_5S \cdot C_6H_{13}N$
Mol. weight 560,67*99,18 g/mol

**BAA1391 Boc-L-Arg(Mtr)-OH**

N-alpha-*t*-Butyloxycarbonyl-*N*'-(4-methoxy-2,3,6-trimethylphenyl-sulfonyl)-L-arginine

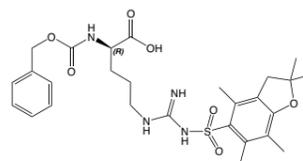
CAS-No. 102185-38-6
Formula $C_{21}H_{34}N_4O_7S$
Mol. weight 486,58 g/mol



ZAA1173 Z-D-Arg(Pbf)-OH*CHA

N-alpha-Benzyloxycarbonyl-N'-2,2,4,6,7-pentamethyl-dihydrobenzofuran-5-sulfonyl-D-arginine cyclohexylamine

CAS-No. 200191-00-0
Formula $C_{27}H_{36}N_4O_7S^*C_6H_{13}N$
Mol. weight 560,67*99,18 g/mol

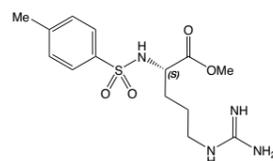


Product details

**TAA1507 Tos-L-Arg-OMe*HCl**

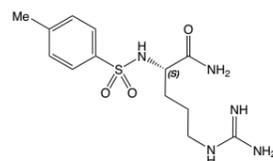
N-alpha-p-Toluolsulfonyl-L-arginine methyl ester hydrochloride

CAS-No. 1784-03-8
Formula $C_{14}H_{22}N_4O_4S^*HCl$
Mol. weight 342,41*36,45 g/mol

**TAA1506 Tos-L-Arg-NH₂*HCl**

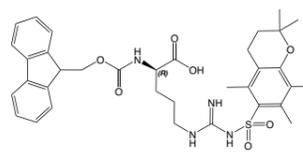
N-alpha-p-Toluolsulfonyl-L-arginine amide hydrochloride

CAS-No. 14279-64-2
Formula $C_{13}H_{21}N_5O_3S^*HCl$
Mol. weight 363,89 g/mol

**FAA1306 Fmoc-D-Arg(Pmc)-OH**

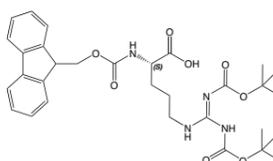
N-alpha-(9-Fluorenylmethyloxycarbonyl)-N'-(2,2,5,7,8-pentamethylchroman-6-sulfonyl)-D-arginine

CAS-No. 157774-30-6
Formula $C_{35}H_{42}N_4O_5$
Mol. weight 662,8 g/mol

**FAA1699 Fmoc-L-Arg(Boc)2-OH**

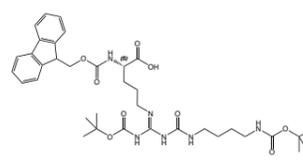
N-alpha-(9-Fluorenylmethyloxycarbonyl)-N',N''-bis-t-butylloxycarbonyl-L-arginine

CAS-No. 143824-77-5
Formula $C_{31}H_{40}N_4O_8$
Mol. weight 596,68 g/mol

**FAA7210 Fmoc-L-Arg(Boc,Bu-NHBoc)-OH**

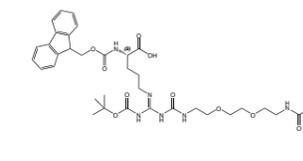
N-alpha-(9-Fluorenylmethyloxycarbonyl)-N'-t-butylloxycarbonyl-N''-(4-t-butylloxycarbonylamino)butyl carbamoyl-L-arginine

CAS-No. 1872226-95-3
Formula $C_{36}H_{50}N_6O_9$
Mol. weight 710,82 g/mol

**FAA7220 Fmoc-L-Arg(Boc,PEG(2)-NHBoc)-OH**

N-alpha-(9-Fluorenylmethyloxycarbonyl)-N'-t-butylloxycarbonyl-N''-(2-(2-(2-t-butylloxycarbonylamino)ethoxy)ethoxy)ethyl carbamoyl-L-arginine

CAS-No. 1872226-96-4
Formula $C_{38}H_{54}N_6O_{11}$
Mol. weight 770,87 g/mol

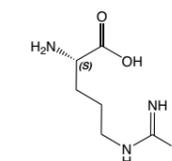


Product details

**HAA1069 H-L-Arg-OH*HCl**

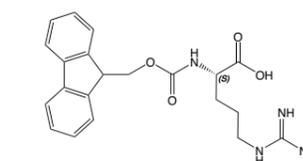
L-Arginine hydrochloride

CAS-No. 1119-34-2
Formula $C_6H_{14}N_4O_3^*HCl$
Mol. weight 174,2*36,5 g/mol

**FAA1591 Fmoc-L-Arg-OH**

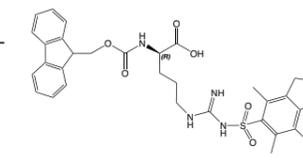
N-alpha-(9-Fluorenylmethyloxycarbonyl)-L-arginine hydrate

CAS-No. 91000-69-0
Formula $C_{27}H_{24}N_4O_4$
Mol. weight 396,45 g/mol

**FAA1305 Fmoc-D-Arg(Pbf)-OH**

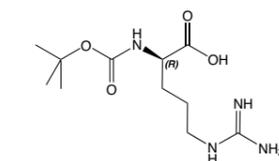
N-alpha-(9-Fluorenylmethyloxycarbonyl)-N'-(2,2,4,6,7-pentamethyl-dihydrobenzofuran-5-sulfonyl)-D-arginine

CAS-No. 187618-60-6
Formula $C_{34}H_{40}N_4O_5$
Mol. weight 648,8 g/mol

**BAA1023 Boc-D-Arg-OH*H₂O*HCl**

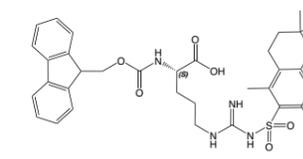
N-alpha-t-Butylloxycarbonyl-D-arginine monohydrate hydrochloride

CAS-No. 113712-06-4
Formula $C_{17}H_{22}N_4O_4^*HCl^*H_2O$
Mol. weight 274,4*36,5*18,0 g/mol

**FAA1351 Fmoc-L-Arg(Pmc)-OH**

N-alpha-(9-Fluorenylmethyloxycarbonyl)-N'-(2,2,5,7,8-pentamethylchroman-6-sulfonyl)-L-arginine

CAS-No. 119831-72-0
Formula $C_{35}H_{42}N_4O_5$
Mol. weight 662,81 g/mol

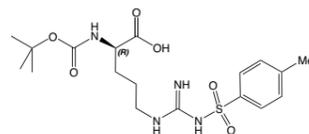


		Product details			Product details
BAA1068	Boc-L-Arg(Tos)-OH N-alpha-t-Butyloxycarbonyl-N-gamma-4-toluolsulfonyl-L-arginine CAS-No. 13836-37-8 Formula $C_{18}H_{28}N_4O_6S$ Mol. weight 428,5 g/mol			HAA1195	H-L-Arg-ANBA-Me*2HCl L-Arginine-5-amino-2-nitrobenzoic acid methylamide dihydrochloride CAS-No. 2250437-20-6 Formula $C_{14}H_{21}N_5O_4 \cdot 2HCl$ Mol. weight 351,36*72,9 g/mol
ZAA1023	Z-D-Arg-OH N-alpha-Benzoyloxycarbonyl-D-arginine CAS-No. 6382-93-0 Formula $C_{14}H_{20}N_4O_4$ Mol. weight 308,34 g/mol			HAA2755	H-Gly-L-Arg-pNA*2HCl Glycyl-L-arginine p-nitroanilide dihydrochloride CAS-No. 103192-40-1 net Formula $C_{14}H_{21}N_5O_4 \cdot 2HCl$ Mol. weight 351,36*72,9 g/mol
BAA1021	Boc-D-Arg(Pbf)-OH N-alpha-(t-Butyloxycarbonyl)-N'-2,2,4,6,7-pentamethyl-dihydrobenzofuran-5-sulfonyl-D-arginine CAS-No. 186698-61-3 Formula $C_{24}H_{38}N_4O_6S$ Mol. weight 526,65 g/mol			ZAA1191	Z-D-Arg(NO₂)-OH N-alpha-Benzoyloxycarbonyl-N'-nitro-D-arginine Formula $C_{14}H_{19}N_5O_6$ Mol. weight 353,34 g/mol
BAA1346	Boc-D-Arg(Tos)-OH N-alpha-t-Butyloxycarbonyl-N-gamma-(4-toluolsulfonyl)-D-arginine CAS-No. 61315-61-5 Formula $C_{18}H_{28}N_4O_6S$ Mol. weight 428,51 g/mol			ZAA1194	Z-L-Arg(Mtr)-OH*CHA N-alpha-Benzoyloxycarbonyl-N'-(4-methoxy-2,3,6-trimethylphenyl-sulfonyl)-L-arginine cyclohexylamine CAS-No. 80745-09-1 Formula $C_{24}H_{32}N_4O_7S \cdot C_6H_{13}N$ Mol. weight 520,60*99,18 g/mol
HAA1068	H-L-Arg-OH L-Arginine CAS-No. 74-79-3 Formula $C_6H_{14}N_4O_2$ Mol. weight 174,2 g/mol			ZAA1006	Z-L-Arg-OH N-alpha-Benzoyloxycarbonyl-L-arginine CAS-No. 1234-35-1 Formula $C_{14}H_{20}N_4O_4$ Mol. weight 308,34 g/mol
HAA1008	H-D-Arg-OH D-Arginine, free base CAS-No. 157-06-2 Formula $C_6H_{14}N_4O_2$ Mol. weight 174,2 g/mol			BAA0032	Bz-L-Arg-OMe*HCl N-alpha-Benzoyl-L-arginine methyl ester hydrochloride CAS-No. 1784-04-9 Formula $C_{14}H_{20}N_4O_3 \cdot HCl$ Mol. weight 292,32*36,45 g/mol

BAA1022 Boc-D-Arg(Tos)-OH*EtOAc

N-alpha-t-Butyloxycarbonyl-N-omega-4-toluolsulfonyl-D-arginine Ethylacetat

CAS-No. 114622-81-0
 Formula $C_{18}H_{28}N_4O_6S^*C_4H_8O$
 Mol. weight 428,51*88,11 g/mol

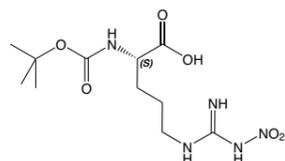


Product details

**BAA1066 Boc-L-Arg(NO₂)-OH**

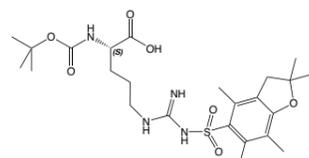
N-alpha-t-Butyloxycarbonyl-N-gamma-nitro-L-arginine

CAS-No. 2188-18-3
 Formula $C_{11}H_{21}N_5O_6$
 Mol. weight 319,32 g/mol

**BAA1067 Boc-L-Arg(Pbf)-OH**

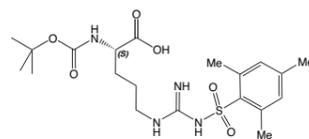
N-alpha-(t-Butyloxycarbonyl)-N'-2,2,4,6,7-pentamethyl-dihydrobenzofuran-5-sulfonyl-L-arginine

CAS-No. 200124-22-7
 Formula $C_{24}H_{38}N_4O_5S$
 Mol. weight 526,65 g/mol

**BAA1392 Boc-L-Arg(Mts)-OH*CHA**

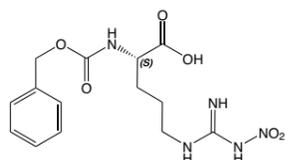
N-alpha-t-Butyloxycarbonyl-N'-(mesitylene-2-sulfonyl)-L-arginine cyclohexylamine

CAS-No. 68262-72-6
 Formula $C_{20}H_{32}N_4O_6S^*C_6H_{13}N$
 Mol. weight 456,55*99,18 g/mol

**ZAA1195 Z-L-Arg(NO₂)-OH**

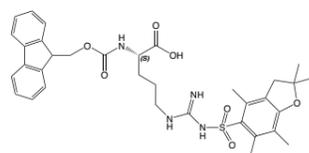
N-alpha-Benzoyloxycarbonyl-N'-nitro-L-arginine

CAS-No. 2304-98-5
 Formula $C_{14}H_{19}N_5O_6$
 Mol. weight 353,34 g/mol

**FAA1010 Fmoc-L-Arg(Pbf)-OH**

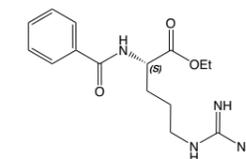
N-alpha-(9-Fluorenylmethyloxycarbonyl)-N'-2,2,4,6,7-pentamethyldihydrobenzofuran-5-sulfonyl-L-arginine

CAS-No. 154445-77-9
 Formula $C_{34}H_{40}N_4O_7S$
 Mol. weight 648,8 g/mol

**BAA0030 Bz-L-Arg-OEt*HCl**

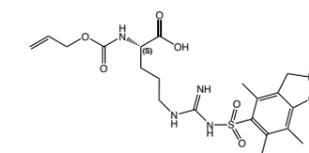
N-alpha-Benzoyl-L-arginine ethyl ester hydrochloride

CAS-No. 2645-08-1
 Formula $C_{15}H_{23}N_4O_3^*HCl$
 Mol. weight 342,82 g/mol

**AAA2030 Aloc-L-Arg(Pbf)-OH**

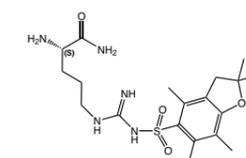
N-alpha-Allyloxycarbonyl-N'-2,2,4,6,7-pentamethyl-dihydrobenzofuran-5-sulfonyl-L-arginine

CAS-No. 783371-61-9
 Formula $C_{23}H_{34}N_4O_5S$
 Mol. weight 510,6 g/mol

**HAA3740 H-L-Arg(Pbf)-NH₂*HCl**

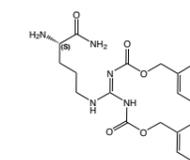
N'-2,2,4,6,7-pentamethyldihydrobenzofuran-5-sulfonyl-L-arginine amide hydrochloride

CAS-No. 1350564-36-1
 Formula $C_{19}H_{31}N_5O_4S^*HCl$
 Mol. weight 425,55*36,45 g/mol

**HAA3750 H-L-Arg(Z)2-NH₂*HCl**

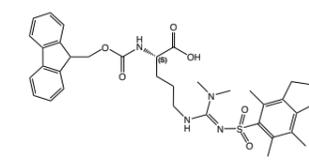
N',N''-bis-benzyloxycarbonyl-L-arginine amide hydrochloride

Formula $C_{22}H_{27}N_5O_5^*HCl$
 Mol. weight 441,48*36,45 g/mol

**FAA4780 Fmoc-L-Arg(Me)2(Pbf)-OH (asymmetrical)**

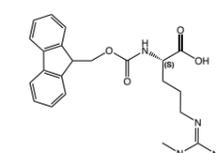
N-alpha-(9-Fluorenylmethyloxycarbonyl)-N',N''-dimethyl-N'-2,2,4,6,7-pentamethyldihydrobenzofuran-5-sulfonyl-L-arginine

CAS-No. 1185841-84-2
 Formula $C_{36}H_{44}N_4O_7S$
 Mol. weight 676,82 g/mol

**FAA4790 Fmoc-L-Arg(Me)2-OH*HCl (symmetrical)**

N-alpha-(9-Fluorenylmethyloxycarbonyl)-N',N''-dimethyl-L-arginine hydrochloride

CAS-No. 1330286-46-8
 Formula $C_{23}H_{28}N_4O_4^*HCl$
 Mol. weight 424,49*36,45 g/mol

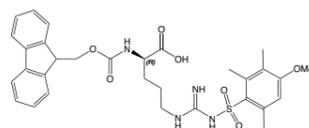


		Product details			Product details
BAA1069	Boc-L-Arg-OH*H₂O*HCl N-alpha-t-Butyloxycarbonyl-L-arginine monohydrate hydrochloride CAS-No. 35897-34-8 Formula C ₁₁ H ₂₂ N ₄ O ₄ *HCl*H ₂ O Mol. weight 274,4*36,5*18,0 g/mol			FAA1700	Fmoc-L-Arg(Mtr)-OH solv. N-alpha-(9-Fluorenylmethyloxycarbonyl)-N'-4-methoxy-2,3,6-trimethylphenyl-sulfonyl-L-arginine solvate CAS-No. 98930-01-9 Formula C ₃₁ H ₃₆ N ₄ O ₅ S Mol. weight 608,71 g/mol
BAA0031	Bz-L-Arg-OH N-alpha-Benzoyl-L-arginine CAS-No. 154-92-7 Formula C ₁₃ H ₁₈ N ₄ O ₃ Mol. weight 278,31 g/mol			FAA1701	Fmoc-L-Arg(NO₂)-OH N-alpha-(9-Fluorenylmethyloxycarbonyl)-N'-nitro-L-arginine CAS-No. 58111-94-7 Formula C ₂₁ H ₂₃ N ₅ O ₆ Mol. weight 441,44 g/mol
BAA5360	Boc-L-Arg-pNA*HCl N-alpha-t-Butyloxycarbonyl-L-arginine p-nitroanilide hydrochloride CAS-No. 99306-64-6 Formula C ₁₇ H ₂₆ N ₆ O ₅ *HCl Mol. weight 394,43*36,45 g/mol			FAA1702	Fmoc-L-Arg(Tos)-OH N-alpha-(9-Fluorenylmethyloxycarbonyl)-N'-tosyl-L-arginine CAS-No. 83792-47-6 Formula C ₂₈ H ₃₀ N ₄ O ₆ S Mol. weight 550,63 g/mol
BAA0029	Bz-L-Arg-NH₂*HCl N-alpha-Benzoyl-L-arginine amide hydrochloride CAS-No. 4299-03-0 Formula C ₁₃ H ₁₉ N ₅ O ₂ *HCl Mol. weight 277,32*36,45 g/mol			HAA1009	H-D-Arg-OH*HCl D-Arginine hydrochloride CAS-No. 627-75-8 Formula C ₆ H ₁₄ N ₄ O ₂ *HCl Mol. weight 174,2*36,5 g/mol
HAA1513	H-D-Arg-NH₂*2HCl D-Arginine amide dihydrochloride CAS-No. 203308-91-2 Formula C ₆ H ₁₅ N ₅ O ₂ *2HCl Mol. weight 173,22*72,9 g/mol			HAA1176	H-L-Arg-ANBAiPr*2HCl Arginine-5-amino-2-nitrobenzoic acid isopropylamide dihydrochloride CAS-No. 1272755-10-8 Formula C ₁₆ H ₂₅ N ₇ O ₄ *2HCl Mol. weight 379,42*72,9 g/mol
HAA5840	H-L-Arg-OMe*2HCl L-Arginine methyl ester dihydrochloride CAS-No. 26340-89-6 Formula C ₇ H ₁₆ N ₄ O ₂ *2HCl Mol. weight 188,23*72,92 g/mol			HAA1178	H-L-Arg-pNA*2HCl L-Arginine p-Nitroanilide dihydrochloride CAS-No. 40127-11-5 Formula C ₁₂ H ₁₈ N ₆ O ₃ *2HCl Mol. weight 367,22 g/mol

FAA1663 Fmoc-D-Arg(Mtr)-OH

N-alpha-(9-Fluorenylmethyloxycarbonyl)-N'-4-methoxy-2,3,6-trimethylphenyl-sulfonyl-D-arginine

CAS-No. 120075-24-3
 Formula $C_{31}H_{36}N_4O_7S$
 Mol. weight 608,69 g/mol

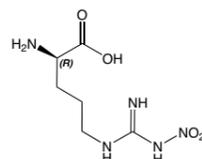


Product details

**HAA5750 H-D-Arg(NO₂)-OH**

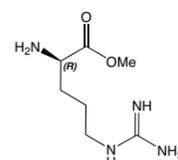
N'-Nitro-D-arginine

CAS-No. 66036-77-9
 Formula $C_6H_{13}N_5O_4$
 Mol. weight 219,21 g/mol

**HAA5770 H-D-Arg-OMe*2HCl**

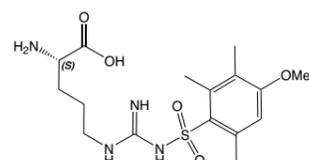
D-Arginine methyl ester dihydrochloride

CAS-No. 78851-84-0
 Formula $C_7H_{15}N_5O_2 \cdot 2HCl$
 Mol. weight 261,15 g/mol

**HAA5790 H-L-Arg(Mtr)-OH**

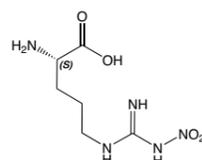
N'-(4-methoxy-2,3,6-trimethylphenyl-sulfonyl)-L-arginine

CAS-No. 80745-10-4
 Formula $C_{16}H_{26}N_4O_5S$
 Mol. weight 386,46 g/mol

**HAA5800 H-L-Arg(NO₂)-OH**

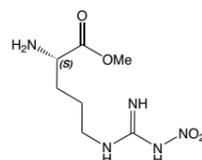
N'-Nitro-L-arginine

CAS-No. 2149-70-4
 Formula $C_6H_{13}N_5O_4$
 Mol. weight 219,21 g/mol

**HAA5810 H-L-Arg(NO₂)-OMe*HCl**

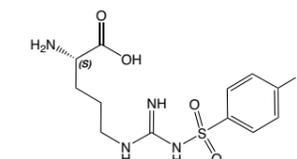
N'-Nitro-L-arginine methyl ester hydrochloride

CAS-No. 51298-62-5
 Formula $C_7H_{15}N_5O_4 \cdot HCl$
 Mol. weight 233,11*36,45 g/mol

**HAA5820 H-L-Arg(Tos)-OH**

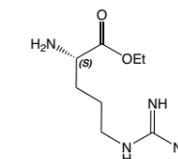
N'-p-Toluolsulfonyl-L-arginine

CAS-No. 4353-32-6
 Formula $C_{13}H_{20}N_4O_4S$
 Mol. weight 328,39 g/mol

**HAA5830 H-L-Arg-OEt*2HCl**

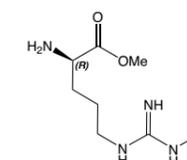
L-Arginine ethyl ester dihydrochloride

CAS-No. 36589-29-4
 Formula $C_8H_{18}N_4O_2 \cdot 2HCl$
 Mol. weight 275,18 g/mol

**HAA5760 H-D-Arg(NO₂)-OMe*HCl**

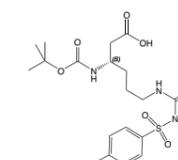
N'-Nitro-D-arginine methyl ester hydrochloride

CAS-No. 50912-92-0
 Formula $C_7H_{15}N_5O_4 \cdot HCl$
 Mol. weight 233,11*36,45 g/mol

**BAA6130 Boc-L-beta-HArg(Tos)-OH**

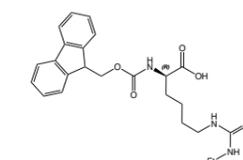
N-beta-(t-Butyloxycarbonyl)-N'-tosyl-L-homoarginine

CAS-No. 136271-81-3
 Formula $C_{19}H_{30}N_4O_6S$
 Mol. weight 442,53 g/mol

**FAA7660 Fmoc-D-hArg(Et)₂-OH*HCl**

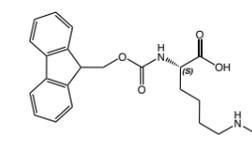
N-alpha-(9-Fluorenylmethyloxycarbonyl)-N,N'-diethyl-D-homoarginine hydrochloride

CAS-No. 2410074-42-7
 Formula $C_{26}H_{34}N_4O_4 \cdot HCl$
 Mol. weight 466,57*36,45 g/mol

**FAA8715 Fmoc-L-HArg-OH**

N-alpha-(9-Fluorenylmethyloxycarbonyl)-L-homoarginine

CAS-No. 776277-76-0
 Formula $C_{22}H_{26}N_4O_4$
 Mol. weight 410,47 g/mol

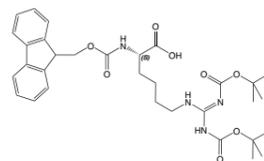


Product details

FAA1382 Fmoc-L-HArg(Boc)2-OH

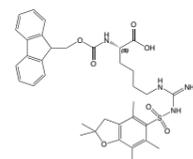
N-alpha-(9-Fluorenylmethyloxycarbonyl)-N,N'-bis(t-butyloxycarbonyl)-L-homoarginine

CAS-No. 158478-81-0
 Formula $C_{32}H_{42}N_4O_8$
 Mol. weight 610,69 g/mol

**FAA1567 Fmoc-L-HArg(Pbf)-OH**

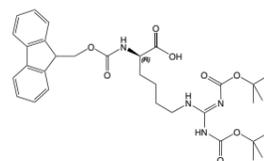
N-alpha-(9-Fluorenylmethyloxycarbonyl)-N'-2,2,4,6,7-pentamethylidihydrobenzofuran-5-sulfonyl-L-homoarginine

CAS-No. 1159680-21-3
 Formula $C_{35}H_{42}N_4O_7S$
 Mol. weight 662,81 g/mol

**FAA1566 Fmoc-D-HArg(Boc)2-OH**

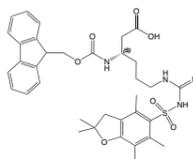
N-alpha-(9-Fluorenylmethyloxycarbonyl)-N,N'-bis(t-butyloxycarbonyl)-D-homoarginine

Formula $C_{32}H_{42}N_4O_8$
 Mol. weight 610,69 g/mol

**FAA6530 Fmoc-L-beta-HArg(Pbf)-OH**

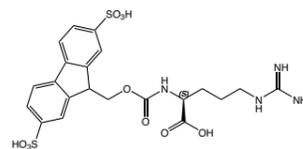
N-beta-(9-Fluorenylmethyloxycarbonyl)-N'-2,2,4,6,7-pentamethylidihydrobenzofuran-5-sulfonyl-L-homoarginine

CAS-No. 401915-53-5
 Formula $C_{35}H_{42}N_4O_7S$
 Mol. weight 662,81 g/mol

**SAA1050 Smoc-L-Arg-OH**

(((2,7-disulfo-9H-fluoren-9-yl)methoxy)carbonyl)-L-arginine potassium salt

CAS-No. 2337407-38-0 (net)
 Formula $C_{21}H_{22}K_2N_4O_{10}S_2$
 Mol. weight 632,74 g/mol



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