

Peptide Synthesis

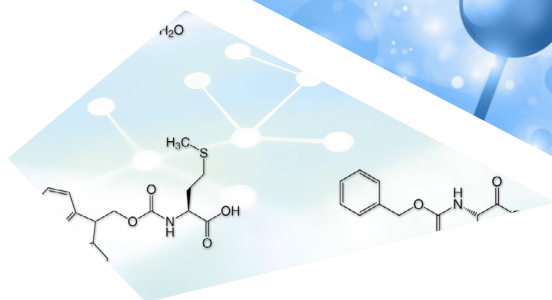
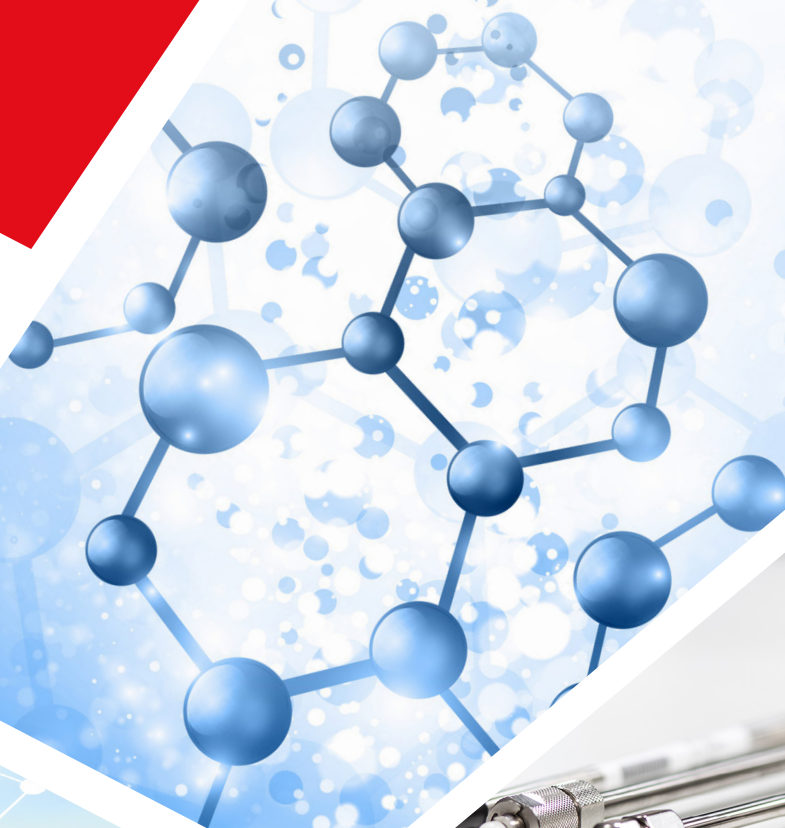


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Peptide Synthesis

PEPTIPURE®-Reagents

Our Brand for Peptide Synthesis

Peptide synthesis reagents must meet very high requirements to ensure that no by-products are produced during peptide synthesis and that very high yields can be achieved. Under the brand name PEPTIPURE® you will find all reagents that are especially suitable for peptide synthesis.

Resins

In general, peptides can be synthesised in two different ways. The solid phase synthesis of peptides (SPPS) according to Merrifield is characterised above all by its efficiency and rapid feasibility. The synthesised peptides, which are bound to the respective resins, can be separated from the resulting by-products and excess reactants by washing and filtration. We offer various resins for solid phase synthesis in our range.

Depending on the application and the amino acids used, different resins are suitable,

but in general the reaction with the resin takes place via the carboxyl group of the amino acid. While the Sieber amide and Rink amide resins are linked to the amino acid via an amide bond, an ester bond is formed with the 2-chlorotrityl and Wang resins.

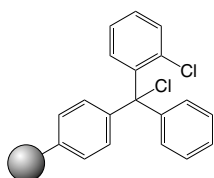


2-Chlorotrityl chloride resin PEPTIPURE® 100–200 mesh, 1 % DVB

WGK 1

Type analysis

Appearance pale yellow-brown beads
Loading 1,0-1,6 mmol/g
Swelling ≥ 3 ml/g (DMF, 24 h)



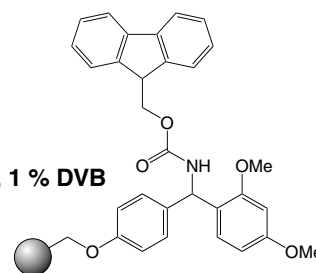
Art. No.	Pack Qty.	Pack.
7405.1	5 g	plastic
7405.2	25 g	plastic

Rink amide resin PEPTIPURE® 100–200 mesh, 1 % DVB

WGK 1

Type analysis

Appearance white to slightly yellow beads
Loading 0,3-0,8 mmol/g
Swelling 4,0-7,0 ml/g (DMF, 24 h)
Swelling 4,5-8,5 ml/g (CH₂Cl₂, 24 h)



Art. No.	Pack Qty.	Pack.
7515.1	1 g	glass
7515.2	5 g	plastic

Wang resin

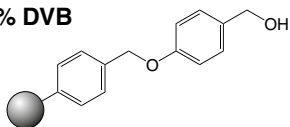
PEPTIPURE® 100–200 mesh, 1 % DVB

Storage temperature: +4 °C

WGK 1

Type analysis

Appearance colourless to yellow beads
Loading 1,0-1,4 mmol/g
Swelling 4,0-7,0 ml/g (DMF, 24 h)
Swelling 4,0-8,0 ml/g (CH₂Cl₂, 24 h)



Art. No.	Pack Qty.	Pack.
7506.1	1 g	glass
7506.2	5 g	plastic
7506.3	25 g	plastic

Sieber amide resin

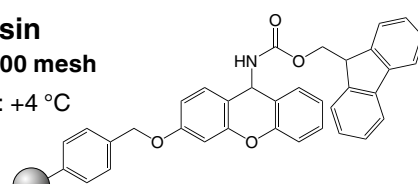
PEPTIPURE® 100–200 mesh

Storage temperature: +4 °C

WGK 1

Type analysis

Appearance white to slightly brown powder
Loading 0,5-0,8 mmol/g
Swelling 4,5-6,0 ml/g (DMF, 24 h)

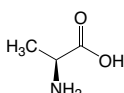


Art. No.	Pack Qty.	Pack.
7408.1	1 g	glass
7408.2	5 g	plastic

Peptide Synthesis

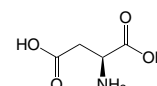
Protected Amino Acids

We supply protected amino acids of the highest quality and purity for standard applications in biochemistry and specifically for peptide synthesis.



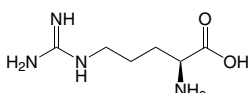
Alanine

Product name	Brand/Purity	Alternative name	Art. No.	Pack Qty.
Boc-L-Alanine	PEPTIPURE® ≥97 %, for biochemistry	Boc-L-Ala-OH	6907.1	5 g
			6907.2	25 g
			6907.3	100 g
Fmoc-L-Alanine monohydrate	PEPTIPURE® ≥98 %, for biochemistry	Fmoc-L-Ala-OH	6646.1	10 g
			6646.2	50 g
			6646.3	250 g
			6646.4	500 g
			6646.5	1 kg
Fmoc-L-β-Azidoalanine	PEPTIPURE® ≥98 %, for biochemistry	Fmoc-L-Aza-OH	7369.1	250 mg
Fmoc-L-γ-Azidohomoalanine	PEPTIPURE® ≥99 %, for biochemistry	Fmoc-L-Aha-OH	7363.1	250 mg
			7363.2	1 g



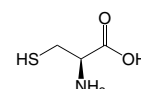
Aspartic acid

Product name	Brand/Purity	Alternative name	Art. No.	Pack Qty.
Boc-L-Aspartic acid-(O-Benzyl)	PEPTIPURE® ≥98,5 %, for biochemistry	Boc-L-Asp(OBzl)-OH	8846.1	5 g
			8846.2	25 g
			8846.3	100 g
Fmoc-L-Aspartic acid-(O-Allyl)	PEPTIPURE® ≥98,5 %, for biochemistry	Fmoc-L-Asp(OAll)-OH	6641.1	500 mg
			6641.2	1 g
			6641.3	5 g
Fmoc-L-Aspartic acid-(OtBu)	PEPTIPURE® ≥96 %, for biochemistry	Fmoc-L-Asp(OtBu)-OH	9654.1	5 g
			9654.2	25 g
			9654.3	100 g
Z-L-Aspartic acid	PEPTIPURE® ≥98,5 %, for biochemistry	Z-L-Asp-OH	1894.1	5 g
			1894.2	25 g
			1894.3	100 g



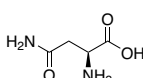
Arginine

Product name	Brand/Purity	Alternative name	Art. No.	Pack Qty.
Boc-L-Arginine hydrochloride monohydrate	PEPTIPURE® ≥98 %, for biochemistry	Boc-L-Arg-OH	6914.1	5 g
			6914.2	25 g
			6914.3	100 g
Fmoc-L-Arginine	PEPTIPURE® ≥98 %, for biochemistry	Fmoc-L-Arg-OH	6896.1	5 g
			6896.2	25 g
Fmoc-L-Arginine-(Pbf)	PEPTIPURE® ≥85 %, for biochemistry	Fmoc-L-Arg(Pbf)-OH	8833.1	5 g
			8833.2	25 g
			8833.3	100 g
Z-L-Arginine	PEPTIPURE® ≥98,5 %, for biochemistry	Cbz-L-Arginin	1914.1	5 g
			1914.2	25 g
			1914.3	100 g



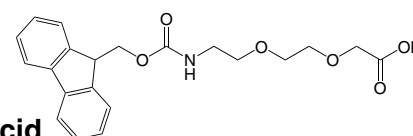
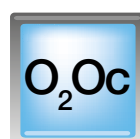
Cysteine

Product name	Brand/Purity	Alternative name	Art. No.	Pack Qty.
Boc-L-Cysteine-(4-MbzI)	PEPTIPURE® ≥98,5 %, for biochemistry	Boc-Cys-(4-MbzI)-OH	2042.1	5 g
			2042.2	10 g
			2042.3	25 g
Fmoc-L-Cysteine-(Acetamidomethyl)	PEPTIPURE® ≥99 %, for biochemistry	Fmoc-L-Cys(Ac-m)-OH	8842.1	5 g
			8842.2	25 g
			8842.3	100 g
Fmoc-L-Cysteine-(Trityl)	PEPTIPURE® ≥98,5 %, for biochemistry	Fmoc-L-Cys(Trt)-OH	8841.1	5 g
			8841.2	25 g
			8841.3	100 g



Asparagine

Product name	Brand/Purity	Alternative name	Art. No.	Pack Qty.
Boc-L-Asparagine	PEPTIPURE® ≥98 %, for biochemistry	Boc-L-Asn-OH	6915.1	5 g
			6915.2	25 g
			6915.3	100 g
Fmoc-L-Asparagine	PEPTIPURE® ≥98,5 %, for biochemistry	Fmoc-L-Asn-OH	6897.1	5 g
			6897.2	25 g
			6897.3	100 g
Fmoc-L-Asparagine-(Trityl)	PEPTIPURE® ≥98 %, for biochemistry	Fmoc-L-Asn(Trt)-OH	9652.1	5 g
			9652.2	25 g
			9652.3	100 g

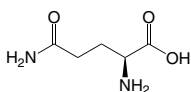


Dioxaoctanoic acid

Product name	Brand/Purity	Alternative name	Art. No.	Pack Qty.
Fmoc-8-Amino-3,6-dioxaoctanoic acid	PEPTIPURE® ≥98 %, for biochemistry	Fmoc-O ₂ Oc-OH	7400.1	500 mg
			7400.2	1 g

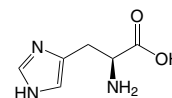
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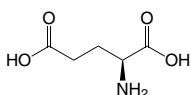
Glutamine

Product name	Brand/Purity	Alternative name	Art. No.	Pack Qty.
Boc-L-Glutamine	PEPTIPURE® ≥97 %, for biochemistry	Boc-L-Gln-OH	6916.1	5 g
			6916.2	25 g
			6916.3	100 g
Fmoc-L-Glutamine	PEPTIPURE® ≥98 %, for biochemistry	Fmoc-L-Gln-OH	6898.1	5 g
			6898.2	25 g
			6898.3	100 g
Fmoc-L-Glutamine-(Trityl)	PEPTIPURE® ≥98 %, for biochemistry	Fmoc-L-Gln(Trt)-OH	9653.1	5 g
			9653.2	25 g
			9653.3	100 g



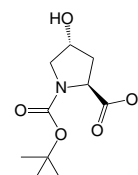
Histidine

Product name	Brand/Purity	Alternative name	Art. No.	Pack Qty.
Boc-L-Histidine	PEPTIPURE® ≥98 %, for biochemistry	Boc-L-His-OH	6920.1	5 g
			6920.2	25 g
			1994.1	1 g
Boc-L-Histidine-(Dnp)	PEPTIPURE® ≥97,5 %, for biochemistry	Boc-L-His-(Dnp)-OH	1994.2	5 g
			1994.3	10 g
			8843.1	5 g
Fmoc-L-Histidine-(Trityl)	PEPTIPURE® ≥97 %, for biochemistry	Fmoc-L-His(Trt)-OH	8843.2	25 g
			8843.3	100 g



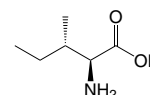
Glutamic acid

Product name	Brand/Purity	Alternative name	Art. No.	Pack Qty.
Boc-L-Glutamic acid	PEPTIPURE® ≥99 %, for biochemistry	Boc-L-Glu-OH	6917.1	5 g
			6917.2	25 g
			6917.3	100 g
Fmoc-L-Glutamic acid-(OtBu) monohydrate	PEPTIPURE® ≥99 %, for biochemistry	Fmoc-L-Glu(Ot-Bu)-OH	9655.1	5 g
			9655.2	25 g
			9655.3	100 g
Z-L-Glutamic acid	PEPTIPURE® ≥98,5 %, for biochemistry	Z-L-Glu-OH	1885.1	5 g
			1885.2	25 g
			1885.3	100 g



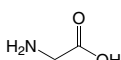
Hydroxyproline

Product name	Brand/Purity	Alternative name	Art. No.	Pack Qty.
Boc-L-Hydroxyproline	PEPTIPURE® ≥98 %, for biochemistry	Boc-L-Hyp-OH	6921.1	5 g
			6921.2	25 g



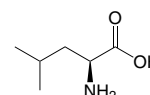
Isoleucine

Product name	Brand/Purity	Alternative name	Art. No.	Pack Qty.
Boc-L-Isoleucine hemihydrate	PEPTIPURE® ≥98 %, for biochemistry	Boc-L-Ile-OH	6923.1	5 g
			6923.2	25 g
			6923.3	100 g
Fmoc-L-Isoleucine	PEPTIPURE® ≥98 %, for biochemistry	Fmoc-L-Ile-OH	6647.1	10 g
			6647.2	50 g
			6647.3	250 g



Glycine

Product name	Brand/Purity	Alternative name	Art. No.	Pack Qty.
Boc-Glycine	PEPTIPURE® ≥98 %, for biochemistry	Boc-Gly-OH	6918.1	5 g
			6918.2	25 g
			6918.3	100 g
Cbz-Cyclohexyl-L-glycine	PEPTIPURE® ≥98 %, for biochemistry	Cbz-L-Chg-OH	6636.1	500 mg
			6636.2	1 g
			6636.3	5 g
Fmoc-Glycine	PEPTIPURE® ≥99 %, for biochemistry	Fmoc-Gly-OH	6899.1	5 g
			6899.2	25 g
			6899.3	100 g

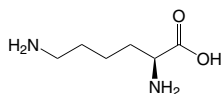


Leucine

Product name	Brand/Purity	Alternative name	Art. No.	Pack Qty.
Boc-L-Leucine monohydrate	PEPTIPURE® ≥98 %, for biochemistry	Boc-L-Leu-OH	6924.1	5 g
			6924.2	25 g
			6924.3	100 g
Boc-L-tert-Leucine	PEPTIPURE® ≥98,5 %, for biochemistry	Boc-L-Tle-OH	6942.1	1 g
			6942.2	5 g
			6942.3	10 g
Fmoc-L-Leucine	PEPTIPURE® ≥95 %, for biochemistry	Fmoc-L-Leu-OH	6654.1	10 g
			6654.2	50 g
			6654.3	250 g
			6654.4	500 g
Z-L-Leucine	PEPTIPURE® ≥94 %, for biochemistry	Z-L-Leu-OH	1859.1	5 g
			1859.2	25 g
			1859.3	100 g

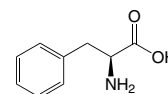
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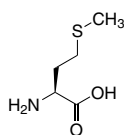
Lysine

Product name	Brand/Purity	Alternative name	Art. No.	Pack Qty.
Boc-L-Lysine	PEPTIPURE® ≥98 %, for biochemistry	Boc-L-Lys-OH	6926.1	1 g
			6926.2	5 g
			6926.3	10 g
Fmoc-L-Azidolysine	PEPTIPURE® ≥98 %, for biochemistry	Fmoc-L-Lys(N ₃)-OH	7357.1	250 mg
Fmoc-L-Lysine	PEPTIPURE® ≥98 %, for biochemistry	Fmoc-L-Lys-OH	6900.1	1 g
			6900.2	5 g
			6900.3	10 g
Fmoc-L-Lysine-(Boc)	PEPTIPURE® ≥98,5 %, for biochemistry	Fmoc-L-Lys-(Boc)-OH	8840.1	5 g
			8840.2	25 g
			8840.3	100 g
Z-L-Lysine	PEPTIPURE® ≥98 %, for biochemistry	Z-L-Lys-OH	1907.1	1 g
			1907.2	5 g
			1907.3	10 g



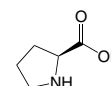
Phenylalanine

Product name	Brand/Purity	Alternative name	Art. No.	Pack Qty.
Boc-L-Phenylalanine	PEPTIPURE® ≥99 %, for biochemistry	Boc-L-Phe-OH	6931.1	5 g
			6931.2	25 g
			6931.3	100 g
Fmoc-L-4-Azidophenylalanine	PEPTIPURE® ≥98 %, for biochemistry	Fmoc-L-Phe(4-N ₃)-OH	7485.1	100 mg
			7485.2	250 mg
Fmoc-L-Phenylalanine	PEPTIPURE® ≥98,5 %, for biochemistry	Fmoc-L-Phe-OH	6658.1	10 g
			6658.2	50 g
			6658.3	250 g
Z-L-Phenylalanine	PEPTIPURE® ≥98 %, for biochemistry	Z-L-Phe-OH	1865.1	5 g
			1865.2	25 g
			1865.3	100 g



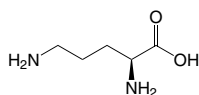
Methionine

Product name	Brand/Purity	Alternative name	Art. No.	Pack Qty.
Boc-L-Methionine	PEPTIPURE® ≥99 %, for biochemistry	Boc-L-Met-OH	6928.1	5 g
			6928.2	25 g
			6928.3	100 g
			6656.1	10 g
Fmoc-L-Methionine	PEPTIPURE® ≥95 %, for biochemistry	Fmoc-L-Met-OH	6656.2	50 g
			6656.3	250 g



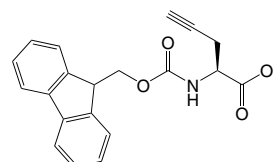
Proline

Product name	Brand/Purity	Alternative name	Art. No.	Pack Qty.
Boc-L-Proline	PEPTIPURE® ≥98 %, for biochemistry	Boc-L-Pro-OH	6932.1	5 g
			6932.2	25 g
			6932.3	100 g
Fmoc-L-4-Azidoproline (2S,4R)	PEPTIPURE® ≥98 %, for biochemistry	Fmoc-L-Pro-(4-N ₃)-OH	7367.1	100 mg
			7367.2	250 mg
			7367.3	1 g
Fmoc-L-Proline	PEPTIPURE® ≥99 %, for biochemistry	Fmoc-L-Pro-OH	6659.1	10 g
			6659.2	50 g
			6659.3	250 g



Ornithine

Product name	Brand/Purity	Alternative name	Art. No.	Pack Qty.
Fmoc-L-Azidoornithine	PEPTIPURE® ≥98 %, for biochemistry	Fmoc-L-Orn(N ₃)-OH	7362.1	250 mg
			7362.2	1 g
Fmoc-L-Ornithine-(Boc)	PEPTIPURE® ≥98 %, for biochemistry	Fmoc-L-Orn-(Boc)-OH	1932.1	1 g
			1932.2	5 g
			1932.3	10 g

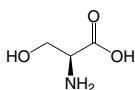


Propargylglycine

Product name	Brand/Purity	Alternative name	Art. No.	Pack Qty.
Fmoc-L-Propargylglycine	PEPTIPURE® ≥99 %, for biochemistry	Fmoc-L-Pra-OH	7491.1	100 mg
			7491.2	250 mg

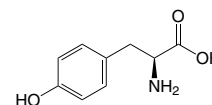
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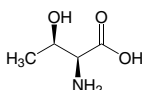
Serine

Product name	Brand/Purity	Alternative name	Art. No.	Pack Qty.
Boc-L-Serine	PEPTIPURE® ≥99 %, for biochemistry	Boc-L-Ser-OH	6933.1	5 g
			6933.2	25 g
			6933.3	100 g
Fmoc-L-Serine monohydrate	PEPTIPURE® ≥98 %, for biochemistry	Fmoc-L-Ser-OH	6901.1	5 g
			6901.2	25 g
Fmoc-L-Serine-(tBu)	PEPTIPURE® ≥99 %, for biochemistry	Fmoc-L-Ser(tBu)-OH	9666.1	5 g
			9666.2	25 g
			9666.3	100 g



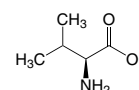
Tyrosine

Product name	Brand/Purity	Alternative name	Art. No.	Pack Qty.
Boc-L-Tyrosine	PEPTIPURE® ≥98 %, for biochemistry	Boc-L-Tyr-OH	6949.1	5 g
			6949.2	25 g
			6906.1	1 g
Fmoc-L-Tyrosine	PEPTIPURE® ≥98 %, for biochemistry	Fmoc-L-Tyr-OH	6906.2	5 g
			6906.3	10 g
			9669.1	5 g
Fmoc-L-Tyrosine-(tBu)	PEPTIPURE® ≥99 %, for biochemistry	Fmoc-L-Tyr(tBu)-OH	9669.2	25 g
			9669.3	100 g



Threonine

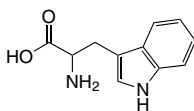
Product name	Brand/Purity	Alternative name	Art. No.	Pack Qty.
Boc-L-Threonine	PEPTIPURE® ≥98 %, for biochemistry	Boc-L-Thr-OH	6935.1	5 g
			6935.2	25 g
			9659.1	5 g
Fmoc-L-Threonine-(tBu)	PEPTIPURE® ≥99 %, for biochemistry	Fmoc-L-Thr(tBu)-OH	9659.2	25 g
			9659.3	100 g



Valine

Product name	Brand/Purity	Alternative name	Art. No.	Pack Qty.
Boc-L-Valine	PEPTIPURE® ≥98 %, for biochemistry	Boc-L-Val-OH	6950.1	5 g
			6950.2	25 g
			6950.3	100 g
			6660.1	10 g
Fmoc-L-Valine	PEPTIPURE® ≥95 %, for biochemistry	Fmoc-L-Val-OH	6660.2	50 g
			6660.3	250 g
			6660.4	500 g

For safety information and additional data, see our current catalogue or at www.carlroth.com / www.carlroth.ch



Tryptophan

Product name	Brand/Purity	Alternative name	Art. No.	Pack Qty.
Boc-L-Tryptophan	PEPTIPURE® ≥98,5 %, for biochemistry	Boc-L-Trp-OH	6945.1	5 g
			6945.2	25 g
			6945.3	100 g
			6903.1	5 g
Fmoc-L-Tryptophan	PEPTIPURE® ≥98 %, for biochemistry	Fmoc-L-Trp-OH	6903.2	25 g
			6903.3	100 g
			9668.1	5 g
Fmoc-L-Tryptophan-(Boc)	PEPTIPURE® ≥97 %, for biochemistry	Fmoc-L-Trp(Boc)-OH	9668.2	25 g
			9668.3	100 g

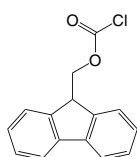


► Amino Acids and Amino Acid derivatives without protective groups can be found in our webshop.

Peptide Synthesis

Protecting Groups

Protective groups are essential for peptide synthesis. A general distinction is made between acid-stable and base-stable protecting groups, each of which can be cleaved off in the opposite environment. Fmoc (acid-stable), Boc (base-stable) and trityl (base-stable) protecting groups are suitable for protecting the *N* terminus (amine group), whereas silyl protecting groups such as TMS (cleavage by fluoride ions) are more suitable for protecting the *C* terminus.



9-Fluorenylmethoxycarbonyl chloride (Fmoc-Cl)

PEPTIPURE® ≥98 %

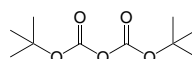
C₁₅H₁₁ClO₂ · M 258,7 g/mol

Storage temperature: +2 to +8 °C

UN no. 1759 · ADR 8 II · WGK 1

Danger H314

Art. No.	Pack Qty.	Pack.
2201.1	5 g	glass
2201.2	25 g	glass
2201.3	100 g	glass



Di-tert-butyl dicarbonate (Boc₂O)

PEPTIPURE ≥95 %

C₁₀H₁₈O₅ · M 218,25 g/mol

Storage temperature: +2 to +8 °C

Art. No.	Pack Qty.	Pack.
27Y4.1	50 g	glass
27Y4.2	100 g	glass
27Y4.3	250 g	glass
27Y4.4	500 g	glass
27Y4.5	1 kg	glass



Trimethylchlorosilane

PEPTIPURE® ≥99 %, for the GC

Silylation agent

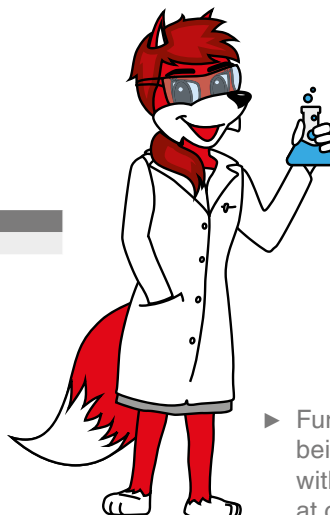
C₃H₉ClSi · M 108,64 g/mol

UN no. 1298 · ADR 3 (8) II · WGK 1

Danger

H225-H301+H331-H312-H314-EUH014 EUH071

Art. No.	Pack Qty.	Pack.
2338.1	25 g	glass



► Further protection groups are currently being planned. Please contact us with any special product requests at chemicals@carlroth.com

Peptide Synthesis

Coupling Reagents

Our range of traditional and innovative coupling reagents is suited for standard coupling reactions. We offer premium quality products and excellent value for money.

Product name	Synonymous	Brand/Purity	Art. No.	Pack Qty.
1,1'-Carbonyldiimidazole	CDI	PEPTIPURE® ≥98 %	6992.1	10 g
			6992.2	25 g
			6992.3	100 g
			6992.4	500 g
1-[(1-(Cyano-2-ethoxy-2-oxoethylideneaminoxy)dimethylaminomorpholino)]uronium hexafluorophosphate	COMU®	PEPTIPURE® ≥99 %	2100.1	5 g
			2100.2	25 g
			2100.3	100 g
			4193.1	100 g
N,N'-Dicyclohexylcarbodiimide	DCC	PEPTIPURE® ≥98 %	4193.2	250 g
			4193.3	500 g
			4193.4	1 kg
			4193.5	2.5 kg
			6981.1	5 ml
N,N'-Diisopropylcarbodiimide	DIC	PEPTIPURE® ≥99 %	6981.2	25 ml
			6981.3	100 ml
			6981.4	500 ml
			2474.1	100 ml
N,N'-Diisopropylethylamine	DIPEA, Hünigs base, N-Ethyl-diisopropylamine	PEPTIPURE® ≥99,5 %	2474.2	250 ml
			2474.3	1 l
			2474.4	2.5 l
			6988.1	5 g
4-(Dimethylamino)pyridine	DMAP	PEPTIPURE® ≥99 %	6988.2	25 g
			6988.3	100 g
			6988.4	500 g
			2110.1	5 g
N,N'-Disuccinimidyl carbonate	DSC	PEPTIPURE® ≥99 %	2110.2	25 g
			2110.3	100 g
			2156.1	5 g
1-Ethyl-3-(3-dimethylamino-propyl)carbodiimide hydrochloride	EDC-HCl	PEPTIPURE® ≥99 %	2156.2	25 g
			2156.3	100 g
			2156.5	1 kg
			2131.1	5 g
O-(7-Azabenzotriazol-1-yl)-N,N,N',N'-tetramethyluronium hexafluorophosphate	HATU	PEPTIPURE® ≥99 %	2131.2	25 g
			2132.1	5 g
O-(Benzotriazol-1-yl)-N,N,N',N'-tetramethyluronium hexafluorophosphate	HBTU	PEPTIPURE® ≥99 %	2132.2	25 g
			2132.3	100 g
			2132.5	1 kg
			2112.1	5 g
O-(1H-6-Chlorobenzotriazole-1-yl)-N,N,N',N'-tetramethyluronium hexafluorophosphate	HCTU	PEPTIPURE® ≥99 %	2112.2	25 g
			2112.3	100 g
			2112.5	1 kg
1-[(Dimethylamino)(morpholino)methylene]-1H-[1,2,3]triazolo-[4,5-b]pyridine-1-ium 3-oxide hexafluorophosphate	HDMA	PEPTIPURE® ≥98 %	6888.1	5 g
			6888.2	25 g
			6888.3	100 g

Product name	Synonymous	Brand/Purity	Art. No.	Pack Qty.
4-((6-Chloro-1H-benzo[d][1,2,3]triazol-1-yloxy)(dimethylamino)methylene)morpholin-4-ium hexafluorophosphate	HDMC	PEPTIPURE® ≥99 %	6893.1	5 g
			6893.2	25 g
			6893.3	100 g
Ethyl cyanoglyxylate-2-oxyme potassium salt	K-Oxyma	PEPTIPURE® ≥99 %	6891.1	25 g
			6891.2	50 g
			6891.3	250 g
5-(Hydroxyimino)-1,3-dimethylpyrimidine-2,4,6(1H,3H,5H)-trione	Oxy-B, DMVA, Oxyma-B	PEPTIPURE® ≥99 %	27PN.1	25 g
			27PN.2	100 g
			27PN.3	500 g
Ethyl(hydroxyimino)cyanoacetate	Oxyma Pure	PEPTIPURE® ≥99,5 %	2118.1	25 g
			2118.2	100 g
			2178.1	5 g
Benzotriazole-1-yl-oxy-tris-pyrrolidino-phosphonium hexafluorophosphate	PyBOP®	PEPTIPURE® ≥98,5 %	2178.2	25 g
			2178.3	100 g
			2178.5	1 kg
			2200.1	5 g
Bromo-tris-pyrrolidino-phosphonium hexafluorophosphate	PyBrOP®	PEPTIPURE® ≥98,5 %	2200.2	25 g
			2200.3	100 g
			2200.5	1 kg
			2123.1	5 g
6-Chloro-benzotriazole-1-yl-oxy-tris-pyrrolidinophosphonium hexafluorophosphate	PyClock®	PEPTIPURE® ≥98,5 %	2123.2	25 g
			2123.3	100 g
			2123.5	1 kg
			27PL.1	5 g
Chlorotripyrrolidinophosphonium hexafluorophosphate	PyCloP	PEPTIPURE® ≥97 %	27PL.2	25 g
			27PL.3	100 g
			2120.1	5 g
(Ethylcyano(hydroxyimino)acetato-O ₃)tri-1-pyrrolidinylphosphonium hexafluorophosphate	PyOxim	PEPTIPURE® ≥99 %	2120.2	25 g
			2120.3	100 g
			2120.5	1 kg
			2140.1	5 g
O-(Benzotriazol-1-yl)-N,N,N',N'-tetramethyluronium tetrafluoroborate	TBTU	PEPTIPURE® ≥99 %	2140.2	25 g
			2140.3	100 g
			2140.5	1 kg
Chloro-N,N,N',N'-tetramethylformamidinium hexafluorophosphate	TCFH	PEPTIPURE® ≥98 %	27PK.1	5 g
			27PK.2	25 g
			27PK.3	100 g
O-(6-Chlorobenzotriazol-1-yl)-N,N,N',N'-tetramethyluronium tetrafluoroborate	TCTU	PEPTIPURE® ≥98 %	6890.1	5 g
			6890.2	25 g
			6890.3	100 g
O-(N-Succinimidyl)-N,N,N',N'-tetramethyluronium tetrafluoroborate	TSTU	PEPTIPURE® ≥99 %	2130.1	5 g
			2130.2	25 g

For safety information and additional data, see our current catalogue or at www.carlroth.com / www.carlroth.ch

Customer advice::

- There is no single coupling reagent that is suitable for every coupling reaction. Therefore, Carl ROTH offers a broad range of established and reactive coupling reagents.
- Besides the „gold standard“ HATU (Art. No. 2131), we also offer the greener alternative COMU® (Art. No. 2100), which is known to mediate the coupling in most cases at least as efficient as HATU.
- Oxyma Pure (Art. No. 2118) and K-Oxyma (Art. No. 6891) were developed as less hazardous alternatives for HOBt and HOAt, thus being a perfect one-to-one replacement in most syntheses.



Peptide Synthesis

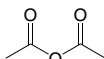
Reagents



for the acetylation of Amino Acids:

Acetic acid anhydride

≥99 %, for synthesis



$C_4H_6O_3$ · M 102,09 g/mol

UN no. 1715 · ADR 8 (3) II · WGK 1

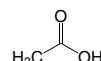
Danger H226-H302-H314-H330-H335

Art. No.	Pack Qty.	Pack.
4483.1	1 l	glass
4483.2	2.5 l	glass
4483.3	5 l	plastic
4483.4	10 l	plastic
4483.5	25 l	plastic

for the deprotection of acid labile protective groups:

Acetic acid

25 %, pure



Ethanoic acid · Methanecarboxylic acid

$C_2H_4O_2$ · M 60,05 g/mol

UN no. 2790 · ADR 8 III · WGK 1

Danger H314

Art. No.	Pack Qty.	Pack.
4340.1	1 l	plastic
4340.5	2.5 l	plastic
4340.2	5 l	plastic
4340.3	10 l	plastic
4340.4	25 l	plastic

for the deprotection of base-labile protecting groups:

Morpholine

≥99 %, for synthesis



C_4H_9NO · M 87,12 g/mol

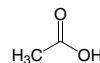
UN no. 2054 · ADR 8 (3) I · WGK 1

Danger
H226-H302-H311+H331-H314-H361fd-EUH208

Art. No.	Pack Qty.	Pack.
9691.1	100 ml	glass
9691.2	500 ml	glass
9691.3	1 l	glass
9691.4	2.5 l	glass
9691.5	10 l	PE/steel

Acetic acid

10 %, pure



Ethanoic acid · Methanecarboxylic acid

$C_2H_4O_2$ · M 60,05 g/mol

UN no. 2790 · ADR 8 III · WGK 1

Warning H315-H319

Art. No.	Pack Qty.	Pack.
4341.1	1 l	plastic
4341.5	2.5 l	plastic
4341.2	5 l	plastic
4341.3	10 l	plastic
4341.4	25 l	plastic

Piperidine

PEPTIPURE® ≥99,5 %



Piperidine can be used to deprotect Fmoc (9-fluorenylmethoxycarbonyl) groups, which are often used in solid phase peptide synthesis.

$C_5H_{11}N$ · M 85,15 g/mol

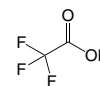
UN no. 2401 · ADR 8 (3) I · WGK 1

Danger H225-H302-H311+H331-H314

Art. No.	Pack Qty.	Pack.
A122.1	200 ml	glass
A122.2	500 ml	glass
A122.3	1 l	glass
A122.4	2.5 l	glass

Trifluoroacetic acid (TFA)

PEPTIPURE® ≥99,9 %



TFA is used in solid phase synthesis as a strong acid to cleave acid-labile protecting groups such as the Boc protecting group.

$C_2HF_3O_2$ · M 114,02 g/mol

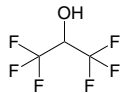
UN no. 2699 · ADR 8 I · WGK 2

Danger H290-H314-H332-H412

Art. No.	Pack Qty.	Pack.
P088.1	100 ml	glass
P088.2	500 ml	glass
P088.3	1 l	glass

Peptide Synthesis

for splitting off from the resin:

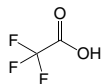


1,1,1,3,3,3-Hexafluoro-2-propanol (HFIP) PEPTIPURE® ≥99 %

C₃H₂F₆O · M 168,04 g/mol
UN no. 3265 · ADR 8 II · WGK 1

Danger H314-H361fd-H373

Art. No.	Pack Qty.	Pack.
2473.1	10 ml	glass
2473.2	25 ml	glass
2473.3	100 ml	glass



Trifluoroacetic acid (TFA) PEPTIPURE® ≥99,9 %

C₂HF₃O₂ · M 114,02 g/mol
UN no. 2699 · ADR 8 I · WGK 2

Danger H290-H314-H332-H412

Art. No.	Pack Qty.	Pack.
P088.1	100 ml	glass
P088.2	500 ml	glass
P088.3	1 l	glass

for the deprotection of silyl protection groups:



Potassium fluoride ≥99 %, p.a.

For fluorination of organic compounds.

KF · M 58,10 g/mol
UN no. 1812 · ADR 6.1 III · WGK 1

Danger H301+H311+H331-H318

Art. No.	Pack Qty.	Pack.
CN83.1	100 g	plastic
CN83.2	250 g	plastic
CN83.3	500 g	plastic
CN83.4	1 kg	plastic

Potassium carbonate ≥99 %, p.a., ACS

Drying agent, disintegrating agent.

K₂CO₃ · M 138,21 g/mol
WGK 1

Warning H315-H319-H335

Art. No.	Pack Qty.	Pack.
P743.1	500 g	plastic
P743.2	1 kg	plastic
P743.3	2.5 kg	plastic

Solvent for peptide synthesis and washing



Product name	Brand/Purity	Pack.	Art. No.	Pack Qty.
Acetonitrile	≥99,5 %, for synthesis	glass	4380.1	1 l
			4380.2	2.5 l
		tinplate	4380.3	10 l
			4380.4	25 l
Dichloromethane	PEPTIPURE® ≥99,9 %	glass	P089.1	2.5 l
<i>N,N</i> -Dimethylacetamide (DMA)	≥99 %, for synthesis	glass	3617.1	250 ml
			3617.2	1 l
			3617.3	2.5 l
		plastic	3617.4	10 l
			3617.5	25 l
<i>N,N</i> -Dimethylformamide (DMF)	PEPTIPURE® ≥99,8 %	glass	A529.3	500 ml
			A529.1	2.5 l
		plastic	A529.7	10 l
	A529.2	25 l		
<i>N</i> -Methyl-2-pyrrolidone (NMP)	PEPTIPURE® ≥99,8 %	glass	P052.1	2.5 l
Water	doubly distilled		3478.1	1 l
			3478.4	5 l
		plastic	3478.2	10 l
			3478.3	30 l

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Peptide Synthesis

Analysis

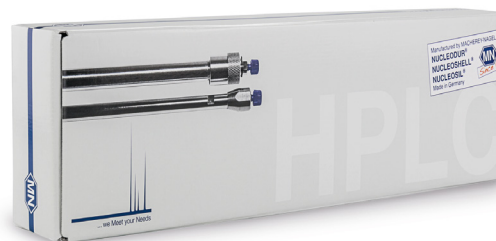


HPLC column NUCLEODUR® 300-5 C₁₈ ec 5 µm

Macherey-Nagel.

Standard RP phase with wide pores (300 Å) for separation of biomolecules in analytical columns. This octadecyl modification is based on high purity NUCLEODUR® silica gel.

Particle size (µm)	Column length (mm)	Column inner diameter (mm)	Art. No.	Pack Qty.
5	100	4.6	26C2.1	1 unit(s)
5	150	2	26C3.1	1 unit(s)
5	150	4.6	26C4.1	1 unit(s)
5	250	4	26C5.1	1 unit(s)
5	250	4.6	26C6.1	1 unit(s)



► Discover many more HPLC columns in our webshop.

Column Protection System

Innovative and universal screw-on guard column holder system
Suitable for all analytical HPLC columns with 1/16" fittings

- Ideal protection for your analytical main column → significant increase in column lifetime
- Minimised void volume → suitable also for ultra fast HPLC
- Special ferrules → pressure stability up to 1300 bar (18850 psi)
- Visual contamination check → in-time changing of the guard column
- Guard column length 4 mm, ID 2 mm (for main columns with 2 mm ID) or ID 3 mm (for main columns with 3, 4 and 4,6 mm ID)

Contents of the column protection system:

- Cartridge holder (1 piece)
- Capillaries (2 pieces)
- Ferrules (3 pieces)
- Wrenches (2 pieces)
- Manual

Macherey-Nagel.

Type	Art. No.	Pack Qty.
Column Protection System	6041.1	1 set



ROTISOLV® LC-MS-Eluent Mixtures

Properties:

- Ready-to-use solvent blends for easy handling
- High chemical purity of the used raw material: HPLC solvents (≥99.9 %) and acids (≥99.9 %)
- High accuracy of the ratio of ingredients
- High UV-permeability
- Trace elements: ≤0.05 ppm per element
- LC-MS suitability tested
- Filtered through 0.2 µm membrane
- Bottled under inert gas



Product name	Purity	Art. No.	Pack Qty.
Acetonitrile with 0.1 % formic acid	≥99,9 %, LC-MS Grade	CP00.2	2.5 l
Acetonitrile with 0.1 % trifluoroacetic acid	≥99,9 %, LC-MS Grade	CP02.1	1 l
		CP02.2	2.5 l
Water with 0.1 % formic acid	LC-MS Grade	CP03.1	1 l
Water with 0.1 % trifluoroacetic acid	LC-MS Grade	CP03.2	2.5 l
		CP05.2	2.5 l

For safety information and additional data, see our current catalogue or at www.carlroth.com / www.carlroth.ch

Peptide Synthesis

Accessories



Reactors for Peptide Synthesis

Pore size 25 µm, temperature resistant until +90 °C.

Column outlet: luer (male).

Delivery incl. plunger and frit (PE).

ROTH SELECTION.

Volume (ml)	Material	Art. No.	Pack Qty.
2	PP	7926.2	10 unit(s)
2	PP	7926.1	100 unit(s)
5	PP	7927.2	10 unit(s)
5	PP	7927.1	100 unit(s)
10	PP	7944.2	10 unit(s)
10	PP	7944.1	100 unit(s)
20	PP	9261.2	10 unit(s)
20	PP	9261.1	100 unit(s)

Frits for Reactors

ROTH SELECTION.

Suitable for	Material	Art. No.	Pack Qty.
2 ml reactors	PE	226H.1	100 unit(s)
5 ml reactors	PE	226K.1	100 unit(s)
10 ml reactors	PE	226L.1	100 unit(s)
20 ml reactors	PE	220N.1	100 unit(s)
2 ml reactors	PTFE	7946.1	100 unit(s)
5 ml reactors	PTFE	7960.1	100 unit(s)
10 ml reactors	PTFE	7962.1	100 unit(s)

Luer Stop Caps for Reactors

ROTH SELECTION.



Suitable for	Art. No.	Pack Qty.
Luer (male and female)	1Y23.1	10 unit(s)
Luer (male and female)	1Y23.2	100 unit(s)



Shaker Orbital digital

- Plates, petri dishes, glass flasks and culture bottles can be secured flexibly using elastic bands
- Digital display of speed and operating time
- Electronic speed control with soft start-up
- 5 years warranty

Technical specifications:

Art. No.	PY67.1
Type	Digital orbital shaker
Movement type	circular
Speed range	20 to 300 rpm
Shaking amplitude (stroke)	19 mm
Timer	1 min to 49 h or continuous operation
Shaking surface area	279 x 279 mm
W x D x H	314 x 312 x 197 mm
Loading capacity	4.5 kg
Permissible ambient conditions	+2 to +40 °C at 80% RH
Mains connection	100–240 V, 50/60 Hz

Delivery incl. platform with rubber mat and 8 elastic bands.

Heathrow Scientific.

Type	Art. No.	Pack Qty.
Digital orbital shaker	PY67.1	1 unit(s)

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ROTH AG
Fabrikmattenweg 12 · 4144 Arlesheim

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