

## Amino Acids

Natural Amino Acids	5.0 mmol (5 pk)	100 g	1 kg	Product Description
Fmoc-L-Ala-OH	A001-B5	A001-C	A001-D	Five (5) pack of pre-weighed centrifuge tubes or bulk container of amino acid.
Fmoc-L-Arg(Pbf)-OH	A002-B5	A002-C	A002-D	
Fmoc-L-Asn(Trt)-OH	A003-B5	A003-C	A003-D	
Fmoc-L-Asp(OtBu)-OH	A004-B5	A004-C	A004-D	
Fmoc-L-Cys(Trt)-OH	A005-B5	A005-C	A005-D	
Fmoc-L-Gln(Trt)-OH	A006-B5	A006-C	A006-D	
Fmoc-L-Glu(OtBu)-OH	A007-B5	A007-C	A007-D	
Fmoc-Gly-OH	A008-B5	A008-C	A008-D	
Fmoc-L-His(Boc)-OH*	A032-B5	A032-C	A032-D	
Fmoc-L-Ile-OH	A010-B5	A010-C	A010-D	
Fmoc-L-Leu-OH	A011-B5	A011-C	A011-D	
Fmoc-L-Lys(Boc)-OH	A012-B5	A012-C	A012-D	
Fmoc-L-Met-OH	A013-B5	A013-C	A013-D	
Fmoc-L-Phe-OH	A014-B5	A014-C	A014-D	
Fmoc-L-Pro-OH	A015-B5	A015-C	A015-D	
Fmoc-L-Ser(tBu)-OH	A016-B5	A016-C	A016-D	
Fmoc-L-Thr(tBu)-OH	A017-B5	A017-C	A017-D	
Fmoc-L-Trp(Boc)-OH	A018-B5	A018-C	A018-D	
Fmoc-L-Tyr(tBu)-OH	A019-B5	A019-C	A019-D	
Fmoc-L-Val-OH	A020-B5	A020-C	A020-D	

\* His(Boc) also available in a 5 g size. Useful His variant for suppressing epimerization.

Amino Acid Kits	5.0 mmol	100 g	1 kg	Product Description
Set of 20 amino acids	AK02-B	AK02-C	AK02-D	One (1) pre-weighed centrifuge tube or bottle of each of the 20 naturally occurring amino acids with the Fmoc-L-His(Boc)-OH derivative in place of the Fmoc-L-His(Trt)-OH.

Aspartimide Prevention	1 g	5 g	100 g	1 kg	5.0 mmol (5 pk)	Product Description
Fmoc-L-Asp(OMpe)-OH	A030-A	A030-B	A030-C	A030-D	A030-B5	The bulky OMpe protecting group reduces aspartimide formation during Fmoc SPPS as compared to OtBu.
Fmoc-L-Asp(OtBu)-(Dmb)Gly-OH	A031-A	A031-B	Inquire	Inquire	N/A	This dipeptide with Dmb backbone protection completely inhibits aspartimide formation during Fmoc SPPS.

Phosphoamino Acids	1 g	5 g	Product Description		
Fmoc-L-Ser(PO(Obzl)OH)-OH	A040-A	A040-B	Used for convenient incorporation of phosphorylated side chains. Ideal for use with CEM's patented DIC/Oxyma/DIEA coupling method for the Liberty Blue.		
Fmoc-L-Thr(PO(Obzl)OH)-OH	A041-A	A041-B			
Fmoc-L-Tyr(PO(Obzl)OH)-OH	A042-A	A042-B			

Specialty Amino Acids	1 g	5 g	25 g	Product Description
Fmoc-L-Lys(Trt)-OH	N/A	N/A	A033-B5	These sidechain protecting groups are more easily removed and scavenged, resulting in higher quality cleaved peptides.
Fmoc-L-Ser(Trt)-OH	N/A	N/A	A034-B5	
Fmoc-L-Thr(Trt)-OH	N/A	N/A	A035-B5	
Fmoc-Aib-OH	N/A	A036-B	A036-B5	An unusual amino acid used with Fmoc SPPS. Refer to CEM Application note AP0150 for more information.
Fmoc-Ahx-OH	N/A	A037-B	A037-B5	Flexible spacer group used with Fmoc SPPS.
Fmoc-L-Lys(ivDde)-OH	N/A	A038-B	A038-B5	The ivDde group can be orthogonally removed allowing for selective branching on the lysine side chain group. Refer to CEM Application note AP0134 for more information.
Fmoc-L-Lys(Fmoc)-OH	N/A	A039-B	A039-B5	This derivative allows for symmetrical branching on the lysine residue. Refer to CEM Application note AP0125 for more information.
Fmoc-Lys(palmitoyl-Glu-OtBu)-OH	A043-A	A043-B	N/A	This derivative is a building block for glucagon-like peptide-1.

## Activators

Reagents	100 g	1 kg	Product Description
Oxyma Pure	S001-C	S001-D	Activator for use with carbodiimide reagents to reduce epimerization during coupling step.

## ProTide PEG-PS Resins

Rink Amide Linker	1 g	5 g	25 g	100 g	Product Description
Fmoc Rink Amide ProTide Resin (LL)	R002-A	R002-B	R002-B5	R002-C	Loading: 0.15-0.25 mmol/g. Unmatched performance for routine synthesis of long (> 30 amino acids) or difficult peptide amides. <b>Can be used in place of PAL or other Rink Amide resins.</b>
Fmoc Rink Amide ProTide Resin	R003-A	R003-B	R003-B5	R003-C	Loading: 0.55 - 0.8 mmol/g. Ideal for peptide sequences <30 amino acids. <b>Can be used in place of PAL or other Rink Amide resins.</b>
Chloride Linker	1 g	5 g	25 g	100 g	Product Description
Cl-TCP(Cl) ProTide Resin	R005-A	R005-B	R005-B5	R005-C	Loading: 0.4-0.6 mmol/g. Universal loading, hyperacid sensitive linker for access to protected or deprotected peptide acids with short (< 30 amino acids) sequences. Designed to protect C-terminal cysteine and proline from side reactions. Ideal for use with CEM's patented DIC/Oxyma/DIEA coupling method for the Liberty Blue. <b>Can be used in place of trityl, 2-chlorotrityl, and HMPB resins.</b>
Cl-MPA ProTide Resin (LL)	R006-A	R006-B	R006-B5	R006-C	Loading: 0.15-0.25 mmol/g. Universal loading linker for routine synthesis of long (> 30 amino acids) or difficult peptide acids. <b>Can be used in place of Wang and HMPA resins.</b>

## Preloaded Resins

Pre-loaded Wang PS (LL) resins	5g	25g	100 g	1 kg	Product Description
Fmoc-Ala-Wang PS (LL)	R100-B	R100-B5	R100-C	Upon Request	All resins are tested for dipeptide content and enantiomeric purity. Loading range is 0.25 - 0.30 mmol/g making them ideal for synthesizing difficult sequences, up to 40 AA in length.
Fmoc-Arg(pbf)-Wang PS (LL)	R101-B	R101-B5	R101-C	Upon Request	
Fmoc-Asn(trt)-Wang PS (LL)	R102-B	R102-B5	R102-C	Upon Request	
Fmoc-L-Asp(OtBu)-Wang PS (L)	R103-B	R103-B5	R103-C	Upon Request	
Fmoc-L-Gln(Trt)-Wang PS (LL)	R104-B	R104-B5	R104-C	Upon Request	
Fmoc-L-Glu(OtBu)-Wang PS (LL)	R105-B	R105-B5	R105-C	Upon Request	
Fmoc-Gly-Wang PS (LL)	R106-B	R106-B5	R106-C	Upon Request	
Fmoc-His(Boc)-Wang PS (LL)*	R119-B	R119-B5	R119-C	Upon Request	
Fmoc-L-Ile-Wang PS (LL)	R108-B	R108-B5	R108-C	Upon Request	
Fmoc-L-Leu-Wang PS (LL)	R109-B	R109-B5	R109-C	Upon Request	
Fmoc-L-Lys(Boc)-Wang PS (LL)	R110-B	R110-B5	R110-C	Upon Request	
Fmoc-L-Met-Wang PS (LL)	R111-B	R111-B5	R111-C	Upon Request	
Fmoc-L-Phe-Wang PS (LL)	R112-B	R112-B5	R112-C	Upon Request	
Fmoc-L-Ser(tBu)-Wang PS (LL)	R113-B	R113-B5	R113-C	Upon Request	
Fmoc-L-Thr(tBu)-Wang PS (LL)	R114-B	R114-B5	R114-C	Upon Request	
Fmoc-L-Trp(Boc)-Wang PS (LL)	R115-B	R115-B5	R115-C	Upon Request	
Fmoc-L-Tyr(tBu)-Wang PS (LL)	R116-B	R116-B5	R116-C	Upon Request	
Fmoc-L-Val-Wang PS (LL)	R117-B	R117-B5	R117-C	Upon Request	

\* Wang resin pre-loaded with Fmoc-His(boc)-OH, a unique His building block which ensures high enantiomeric purity ( $\geq 99.5\%$ ) during the loading process.

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