Peptide Applications Guide

Application	Cycle Type	Application Note Title	CEM Reagent Offerings
N-Terminal Acetylation	Acetylation	Automated N-Terminal Acetylation	N/A
Hindered Amino Acids	Hindered AA Incorporation	Microwave Assisted SPPS of Hindered, Non-Standard Amino Acids	Fmoc-Aib-OH
Phosphoamino Acids	Phosphoamino Acid Incorporation	High Efficiency Synthesis of Phosphopeptides	Fmoc-Ser(PO(OBzl)OH)-OH Fmoc-Thr(PO(OBzl)OH)-OH Fmoc-Tyr(PO(OBzl)OH)-OH
	Coupling After pSer Incorporation		N/A
Glycoamino Acids	Glycoamino Acid Incorporation	Automated Microwave-Enhanced Synthesis of Glycopeptides with O-Linked Glycans	N/A
Peptoids	Peptoid to AA Coupling	Automated Synthesis of Peptoids and Peptoid-Peptide Hybrids	N/A
	Peptoid to Peptoid Coupling		N/A
	AA to Peptoid Coupling		N/A
Symmetric Branching	Lys(Fmoc) Incorporation	Microwave Assisted SPPS of Symmetrically Branched Peptides	Fmoc-Lys(Fmoc)-OH
	Lys(Fmoc) Branching		N/A
Asymmetric Branching (from Lys)	Lys(ivDde) Incorporation	· Microwave Assisted SPPS of Unsymmetrically Branched Peptides · Automated Deprotection of Orthogonal and Non-Standard Lysine Protecting Groups	Fmoc-Lys(ivDde)-OH
	Lys(ivDde) Deprotection		N/A
	Lys(Mmt) Incorporation	Automated Deprotection of Orthogonal and Non-Standard Lysine Protecting Groups	Fmoc-Lys(Mmt)-OH
	Lys(Mmt) Deprotection		N/A
	Lys(Alloc) Incorporation	· Automated Deprotection of Orthogonal and Non-Standard Lysine Protecting Groups · Automated Orthogonal Deprotection of Glu(OAllyl) and Peptide Stapling via Lactamization	Fmoc-Lys(Alloc)-OH
	Lys(Alloc) Deprotection Method 1	Automated Deprotection of Orthogonal and Non-Standard Lysine Protecting Groups	N/A
	Lys(Alloc) Deprotection Method 2	· Automated Deprotection of Orthogonal and Non-Standard Lysine Protecting Groups · Automated Orthogonal Deprotection of Glu(OAllyl) and Peptide Stapling via Lactamization	N/A
	Branching from Lys	· Microwave Assisted SPPS of Unsymmetrically Branched Peptides · Automated Deprotection of Orthogonal and Non-Standard Lysine Protecting Groups	N/A
Asymmetric Branching (from Glu)	Glu(OAllyl) Incorporation	Automated Orthogonal Deprotection of Glu(OAllyl) and Peptide Stapling via Lactamization	Fmoc-Glu(OAll)-OH
	Glu(OAllyl) Deprotection Method 1		N/A
	Glu(OAllyl) Deprotection Method 2		N/A
	Branching from Glu		N/A
Lactam Stapling	Lys(Alloc) Incorporation	Automated Orthogonal Deprotection of Glu(OAllyl) and Peptide Stapling via Lactamization	Fmoc-Lys(Alloc)-OH
	Glu(OAllyl) Incorporation		Fmoc-Glu(OAll)-OH
	Simultaneous Lys(Alloc) and Glu (OAllyl) Deprotection Method 1		N/A
	Simultaneous Lys(Alloc) and Glu (OAllyl) Deprotection Method 2		N/A
	Lactam Stapling		N/A
Hydrocarbon Stapling	Alkenyl AA Incorporation	Automated Synthesis of Hydrocarbon-Stapled Peptides Via Microwave Assisted Ring-Closing Metathesis	N/A
	AA Incorporation to Alkenyl AA		N/A
	RCM Stapling		N/A
Disulfide Bridging	Cys(Mmt) Incorporation	Automated Synthesis of Cyclic Disulfide-Bridged Peptides	Fmoc-Cys(Mmt)-OH
	Cys(Mmt) Deprotection		N/A
	Cys(STmp) Incorporation		N/A
	Cys(STmp) Deprotection		N/A
	Disulfide Bridging		N/A
Head-to-Tail Cyclization	Lys(ivDde) Incorporation	Automated Synthesis of Head-to-Tail Cyclic Peptides via Microwave-Enhanced SPPS	Fmoc-Lys(ivDde)-OH
	Simultaneous Lys(ivDde) and Glu-ODmab Deprotection		Fmoc-Glu(Wang)-ODmab Resin
	Head-To-Tail Cyclization		N/A

For full synthetic details and programming assistance, please email peptide.support@cem.com.
For application notes, go to cem.com/app-notes.

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