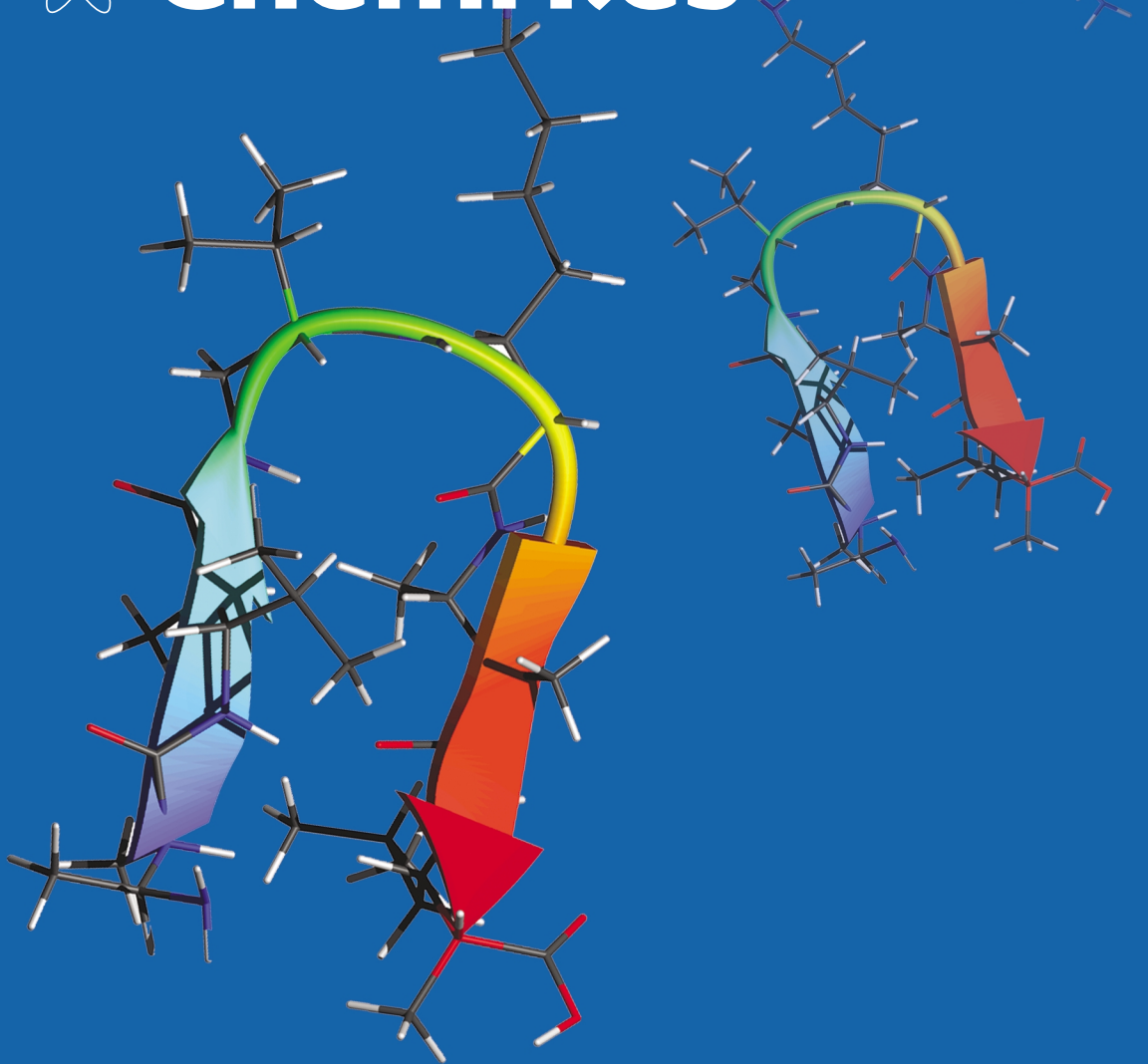




ChemFiles



Unnatural Amino Acids Tools for Drug Discovery

Vol. 1, No. 5

**β -Amino Acids and
Homo-Amino Acids**

Cyclic Amino Acids

Aromatic Amino Acids

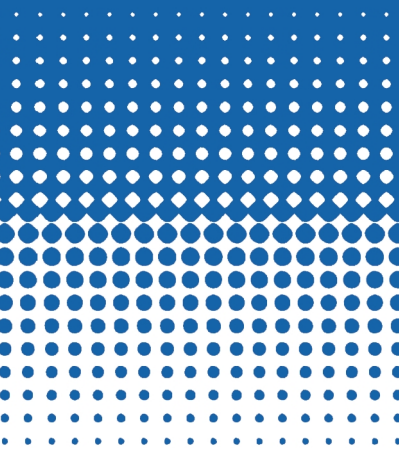
Alanine Derivatives

Glycine Derivatives

**Ring-Substituted
Phe and Tyr Derivatives**

Linear Core Amino Acids

Diamino Acids



Fluka

Unnatural Amino Acids

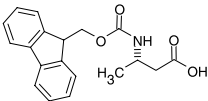
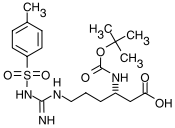
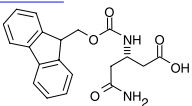
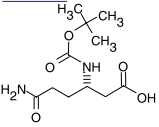
In the last ten years, rapid progress has been made in developing selective peptide receptor ligands with the properties of orally administered drugs. The design of suitable structures bearing the crucial balance between optimal pharmacological (e.g. receptor binding) and optimal pharmaceutical properties (e.g. membrane permeability and metabolic stability) became the major challenge for scientists in medicinal chemistry. Unnatural amino acids were recognized as major tools for the preparation of peptide ligand mimetics with enhanced biological activity and proteolytic resistance.

Fluka is pleased to highlight in this brochure its comprehensive collection of 300 unnatural amino acids for the introduction of diversity and structural constraints. We offer you the following topics in this brochure:

- ❖ β -Amino Acids and Homo-Amino Acids
- ❖ Cyclic Amino Acids
- ❖ Aromatic Amino Acids
- ❖ Alanine Derivatives
- ❖ Glycine Derivatives
- ❖ Ring-substituted Phe and Tyr Derivatives
- ❖ Linear Core Amino Acids
- ❖ Diamino Acids
- ❖ N-Boc monoprotected diamines
- ❖ Coupling reagents

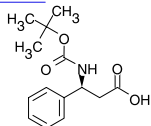
New offerings are shown in red and added monthly! When you cannot find the amino acid you are looking for, or for additional technical information, please contact your local Sigma-Aldrich Office (see back cover) or visit our web-site at www.sigma-aldrich.com/fluka

β -Amino Acids and Homo Amino Acids

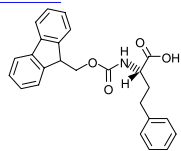
	15054 Boc-Aad-OH ≥98.0 %	2-(Boc-amino)adipic acid, Boc-Homoglu-OH C ₁₁ H ₁₉ NO ₆ M _r 261.27 [77302-72-8]	1 g
47935	14974 Boc-β-Homoala-OH ≥98.0 %	(S)-3-(Boc-amino)butyric acid C ₉ H ₁₇ NO ₄ M _r 203.24 [158851-30-0]	250 mg; 1 g
	47935 Fmoc-β-Homoala-OH ≥98.0 %	(S)-3-(Fmoc-amino)butyric acid C ₁₉ H ₁₉ NO ₄ M _r 325.36 [193954-26-6]	250 mg; 1 g
03674 NEW!	03674 Boc-β-Homoarg(Tos)-OH ≥98.0 %	C ₁₉ H ₃₀ N ₄ O ₆ S M _r 442.52 [136271-81-3]	250 mg; 1 g
	03673 Fmoc-β-Homoarg(Pmc)-OH ~97 %	C ₃₆ H ₄₂ N ₄ O ₇ S M _r 674.81	100 mg; 500 mg
03652	03653 L-β-Gln HCl ≥98.0 %	L- β -Homoasn-OH HCl C ₅ H ₁₀ N ₂ O ₃ ·HCl M _r 182.61	250 mg; 1 g
	03651 Boc-β-Gln-OH ≥98.0 %	Boc-L- β -Homoasn-OH C ₁₀ H ₁₈ N ₂ O ₅ M _r 246.26	250 mg; 1 g
	03652 Fmoc-β-Gln-OH ≥98.0 %	Fmoc-L- β -Homoasn-OH C ₂₀ H ₂₀ N ₂ O ₅ M _r 368.39	250 mg; 1 g
03667	03667 Boc-β-Homogln-OH ≥98.0 %	C ₁₁ H ₂₀ N ₂ O ₅ M _r 260.29	250 mg; 1 g
	03666 Fmoc-β-Homogln-OH ≥98.0 %	C ₂₁ H ₂₂ N ₂ O ₅ M _r 382.42 [283160-17-8]	250 mg; 1 g

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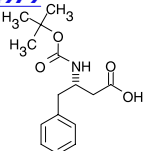
03689		03691 Boc-β-Glu(OBzl)-OH ≥98.0 %	Boc-L-β-Homoasp(OBzl)-OH C ₁₇ H ₂₃ NO ₆	M _r 337.37		250 mg; 1 g
		03689 Fmoc-β-Glu(OtBu)-OH ≥98.0 %	Fmoc-L-β-Homoasp(OBzl)-OH C ₂₄ H ₂₇ NO ₆	M _r 425.48		250 mg; 1 g
47837		14977 Boc-β-Homoglu(OBzl)-OH ≥98.0 %	C ₁₈ H ₂₅ NO ₆	M _r 351.4		250 mg; 1 g
		47837 Fmoc-β-Homoglu(OtBu)-OH ≥98.0 %	C ₂₅ H ₂₉ NO ₆	M _r 439.51	[203854-49-3]	250 mg; 1 g
03683		03683 Boc-β-Homohyp(Bzl)-OH DCHA ~90.0 %	C ₁₈ H ₂₅ NO ₅ ·C ₁₂ H ₂₃ N	M _r 516.71		250 mg; 1 g
		17007 Boc-β-Homohyp(Bzl)-OMe ≥98.0 %	C ₁₉ H ₂₇ NO ₅	M _r 349.43		250 mg; 1 g
		03751 Fmoc-β-Homohyp(tBu)-OH ≥98.0 %	C ₂₅ H ₂₉ NO ₅	M _r 423.51		100 mg; 500 mg
03654		03654 Boc-β-Homoile-OH ≥98.0 %	C ₁₂ H ₂₃ NO ₄	M _r 245.32		250 mg; 1 g
		03671 Fmoc-β-Homoile-OH ≥98.0 %	C ₂₂ H ₂₅ NO ₄	M _r 367.45	[193954-27-7]	250 mg; 1 g
80674		03678 Boc-β-Leu-OH ≥98.0 %	Boc-L-β-Homovalin-OH C ₁₁ H ₂₁ NO ₄	M _r 231.29	[183990-64-9]	250 mg; 1 g
		80674 Boc-D-β-Leu-OH ≥98.0 %	Boc-D-β-Homovalin-OH C ₁₁ H ₂₁ NO ₄	M _r 231.29	[179412-79-4]	250 mg; 1 g
73278		03676 Fmoc-β-Leu-OH ≥98.0 %	Fmoc-L-β-Homovalin-OH C ₂₁ H ₂₃ NO ₄	M _r 353.42	[172695-33-9]	250 mg; 1 g
		73278 Fmoc-D-β-Leu-OH ≥98.0 %	Fmoc-D-β-Homovalin-OH C ₂₁ H ₂₃ NO ₄	M _r 353.24		250 mg; 1 g
47946		14975 Boc-β-Homoleu-OH ≥98.0 %	C ₁₂ H ₂₃ NO ₄	M _r 245.32	[132549-43-0]	250 mg; 1 g
		47946 Fmoc-β-Homoleu-OH ~98 %	C ₂₂ H ₂₅ NO ₄	M _r 367.45	[193887-44-4]	250 mg; 1 g
52136		52136 Boc-β-Lys(Z)-OH DCHA ≥98.0 %	Boc-L-β-Homoorn(Z)-OH DCHA C ₁₉ H ₂₈ N ₂ O ₆ ·C ₁₂ H ₂₃ N	M _r 561.76		1 g
14978		14978 Boc-β-Homolys(Z)-OH ≥98.0 %	C ₂₀ H ₃₀ N ₂ O ₆	M _r 394.47		250 mg; 1 g
		47874 Fmoc-β-Homolys(Boc)-OH ~97 %	C ₂₇ H ₃₄ N ₂ O ₆	M _r 482.58	[203854-47-1]	250 mg; 1 g
03661		03661 Boc-β-Homomet-OH ≥98.0 %	C ₁₁ H ₂₁ NO ₄ S	M _r 263.35		250 mg; 1 g
		03658 Fmoc-β-Homomet-OH ≥98.0 %	C ₂₁ H ₂₃ NO ₄ S	M _r 385.48		250 mg; 1 g

09793 **NEW!**

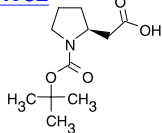
09794	Boc-β-Phe-OH	(R)-3-(Boc-amino)-3-phenylpropionic acid			
	~98 %	$C_{14}H_{19}NO_4$	M_r 265.31	[161024-80-2]	250 mg; 1 g
09793	Boc-D-β-Phe-OH	(S)-3-(Boc-amino)-3-phenylpropionic acid			
	≥98.0 %	$C_{14}H_{19}NO_4$	M_r 265.31	[103365-86-2]	250 mg; 1 g
09795	Fmoc-β-Phe-OH	(R)-3-(Fmoc-amino)-3-phenylpropionic acid			
	≥98.0 %	$C_{24}H_{21}NO_4$	M_r 387.44	[220498-02-2]	100 mg; 500 mg
00396	Fmoc-D-β-Phe-OH	(S)-3-(Fmoc-amino)-3-phenylpropionic acid			
	≥98.0 %	$C_{24}H_{21}NO_4$	M_r 387.44	[209252-15-3]	100 mg; 500 mg

47430

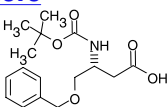
15469	Boc-Homophe-OH				
	≥98.0 %	$C_{15}H_{21}NO_4$	M_r 279.34	[100564-78-1]	1 g; 5 g
15043	Boc-D-Homophe-OH				
	≥98.0 %	$C_{15}H_{21}NO_4$	M_r 279.34	[82732-07-8]	1 g; 5 g
47430	Fmoc-Homophe-OH				
	≥98.0 %	$C_{25}H_{23}NO_4$	M_r 401.46	[132684-59-4]	1 g; 5 g
47429	Fmoc-D-Homophe-OH				
	≥98.0 %	$C_{25}H_{23}NO_4$	M_r 401.46	[135944-09-1]	1 g; 5 g

14979

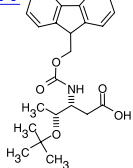
14979	Boc-β-Homophe-OH				
	≥98.0 %	$C_{15}H_{21}NO_4$	M_r 279.34	[51871-62-6]	250 mg; 1 g
47878	Fmoc-β-Homophe-OH	(S)-3-(Fmoc-amino)-4-phenylbutyric acid			
	~97 %	$C_{25}H_{23}NO_4$	M_r 401.46	[193954-28-8]	250 mg; 1 g

14982

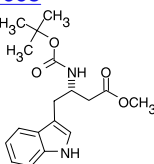
14982	Boc-β-Homopro-OH				
	≥98.0 %	$C_{11}H_{19}NO_4$	M_r 229.28	[56502-01-3]	250 mg; 1 g
47912	Fmoc-β-Homopro-OH				
	≥98.0 %	$C_{21}H_{21}NO_4$	M_r 351.4	[193693-60-6]	250 mg; 1 g

03696

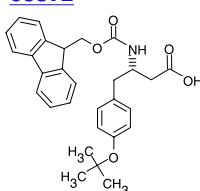
03697	Boc-β-Homoser(Bzl)-OH				
	≥98.0 %	$C_{16}H_{23}NO_5$	M_r 309.36		250 mg; 1 g
03696	Fmoc-β-Homoser(tBu)-OH				
	≥98.0 %	$C_{23}H_{27}NO_5$	M_r 397.47	[203854-51-7]	250 mg; 1 g

47911

14976	Boc-β-Homothr(Bzl)-OH				
	≥98.0 %	$C_{17}H_{25}NO_5$	M_r 323.39		250 mg; 1 g
47911	Fmoc-β-Homothr(tBu)-OH				
	~98 %	$C_{24}H_{29}NO_5$	M_r 411.5		250 mg; 1 g

17008

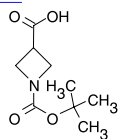
14981	Boc-β-Homotrp-OH				
	≥98.0 %	$C_{17}H_{22}N_2O_4$	M_r 318.37		250 mg; 1 g
17008	Boc-β-Homotrp-OMe				
	≥98.0 %	$C_{18}H_{24}N_2O_4$	M_r 332.4		250 mg; 1 g
47901	Fmoc-β-Homotrp-OH				
	~98 %	$C_{27}H_{24}N_2O_4$	M_r 440.5		250 mg; 1 g

03692

03693	Boc-β-Homotyr(Bzl)-OH				
	≥98.0 %	$C_{22}H_{27}NO_5$	M_r 385.46	[126825-16-9]	250 mg; 1 g
03692	Fmoc-β-Homotyr(tBu)-OH				
	≥98.0 %	$C_{29}H_{31}NO_5$	M_r 473.57	[219967-69-8]	250 mg; 1 g

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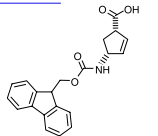
09928 **NEW!**



09928 **1-Boc-azetidine-3-carboxylic acid**
 $\geq 98.0\%$ $C_9H_{15}NO_4$ M_r 201.22 [142253-55-2] 100 mg; 500 mg

00398 **1-Fmoc-azetidine-3-carboxylic acid**
 $\geq 98.0\%$ $C_{19}H_{17}NO_4$ M_r 323.35 [193693-64-0] 100 mg; 500 mg

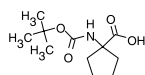
00273 **NEW!**



00272 **(1R,4S)-(+)-4-(Fmoc-amino)-2-cyclopentene-1-carboxylic acid**
 $\geq 98.0\%$ $C_{21}H_{19}NO_4$ M_r 349.39 [220497-65-4] 100 mg; 500 mg

00273 **(1S,4R)-(-)-4-(Fmoc-amino)-2-cyclopentene-1-carboxylic acid**
 $\sim 97\%$ $C_{21}H_{19}NO_4$ M_r 349.39 [220497-64-3] 100 mg; 500 mg

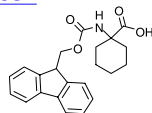
03583



03583 **Boc-cycloleucine** 1-(Boc-amino)cyclopentanecarboxylic acid
 $\geq 98.0\%$ $C_{11}H_{19}NO_4$ M_r 229.28 [35264-09-6] 1 g; 5 g

47512 **Fmoc-cycloleucine** 1-(Fmoc-amino)cyclopentanecarboxylic acid
 $\geq 98.0\%$ $C_{21}H_{21}NO_4$ M_r 351.4 [117322-30-2] 1 g; 5 g

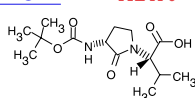
04061



03582 **Boc-homocycloleucine** 1-(Boc-amino)cyclohexanecarboxylic acid
 $\geq 98.0\%$ $C_{12}H_{21}NO_4$ M_r 243.3 [115951-16-1] 1 g

04061 **Fmoc-homocycloleucine** 1-(Fmoc-amino)cyclohexanecarboxylic acid
 $\geq 98.0\%$ $C_{22}H_{23}NO_4$ M_r 365.4 [162648-54-6] 1 g; 5 g

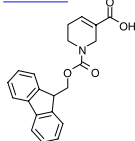
17817 **NEW!**



17817 **N-Boc-Freidinger's lactam** Boc-Gly-Val Freidinger's lactam
 $\sim 97\%$ $C_{14}H_{24}N_2O_5$ M_r 300.36 100 mg

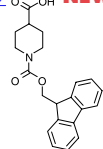
17816 **N-Fmoc-Freidinger's lactam** Fmoc-Gly-Val Freidinger's lactam
 $\sim 97\%$ $C_{24}H_{26}N_2O_5$ M_r 422.48 100 mg; 500 mg

93925 **NEW!**



93925 **N-Fmoc-guvacine** 1-Fmoc-1,2,5,6-tetrahydropyridine-3-carboxylic acid
 $\sim 98\%$ $C_{21}H_{19}NO_4$ M_r 349.39 100 mg; 500 mg

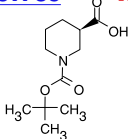
04059 **NEW!**



15518 **Boc-Inp-OH** 1-Boc-piperidine-4-carboxylic acid
 $\geq 99.0\%$ $C_{11}H_{19}NO_4$ M_r 229.28 [84358-13-4] 1 g; 5 g

04059 **Fmoc-Inp-OH** 1-Fmoc-piperidine-4-carboxylic acid
 $\geq 97.0\%$ $C_{21}H_{21}NO_4$ M_r 351.4 [148928-15-8] 1 g; 5 g; 25 g

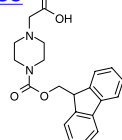
89763 **NEW!**



89763 **Boc-Nip-OH** (S)-N-Boc-piperidine-3-carboxylic acid
 $\geq 98.0\%$ $C_{11}H_{19}NO_4$ M_r 229.28 [88495-54-9] 1 g; 5 g

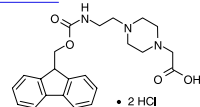
84222 **Fmoc-Nip-OH** (S)-N-Fmoc-piperidine-3-carboxylic acid
 $\geq 99.0\%$ $C_{21}H_{21}NO_4$ M_r 351.4 [193693-68-4] 1 g; 5 g

47553

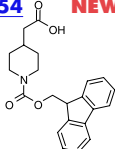


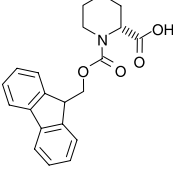
47553 **4-Fmoc-1-piperazineacetic acid H₂O**
 $\geq 97.0\%$ $C_{21}H_{22}N_2O_4 \cdot aq$ M_r 366.42+aq [180576-05-0] 250 mg; 1 g

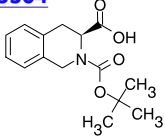
47548

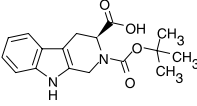


47548 **4-[2-(Fmoc-amino)ethyl]piperazin-1-ylacetic acid 2HCl**
 $\geq 98.0\%$ $C_{23}H_{27}N_3O_4 \cdot 2HCl$ M_r 482.41 [204320-65-0] 250 mg; 1 g

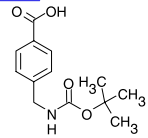
47554 NEW! 	47554 1-Fmoc-4-piperidineacetic acid	1-Fmoc-piperidin-4-ylacetic acid		
	≥99.0 %	C ₂₂ H ₂₃ NO ₄	M _r 365.43	[180181-05-9] 250 mg; 1 g

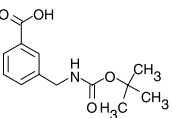
73418 NEW! 	15558 Boc-Pip-OH	(S)-1-Boc-piperidine-2-carboxylic acid		
	≥99.0 %	C ₁₁ H ₁₉ NO ₄	M _r 229.28	[26250-84-0] 1 g; 5 g
	75748 Boc-D-Pip-OH	(R)-1-Boc-piperidine-2-carboxylic acid		
	≥99.0 %	C ₁₁ H ₁₉ NO ₄	M _r 229.28	[28697-17-8] 250 mg; 1 g
	04063 Boc-DL-Pip-OH	(±)-1-Boc-piperidine-2-carboxylic acid		
≥99.0 %	C ₁₁ H ₁₉ NO ₄	M _r 229.26	[98303-20-9] 1 g; 5 g	
09777 Fmoc-Pip-OH	(S)-1-Fmoc-piperidine-2-carboxylic acid			
≥98.0 %	C ₂₁ H ₂₁ NO ₄	M _r 351.4	[86069-86-5] 250 mg; 1 g	
73418 Fmoc-D-Pip-OH	(R)-N-Fmoc-piperidine-2-carboxylic acid			
≥98.0 %	C ₂₁ H ₂₁ NO ₄	M _r 351.4	[101555-63-9] 250 mg; 1 g	

15504 	15504 Boc-Tic-OH	(S)-N-Boc-1,2,3,4-tetrahydroisoquinoline-3-carboxylic acid		
	≥97.0 %	C ₁₅ H ₁₉ NO ₄	M _r 277.32	[78879-20-6] 1 g; 5 g
	15046 Boc-D-Tic-OH	(R)-N-Boc-1,2,3,4-tetrahydroisoquinoline-3-carboxylic acid		
	≥98.0 %	C ₁₅ H ₁₉ NO ₄	M _r 277.32	[115962-35-1] 1 g; 5 g
47701 Fmoc-Tic-OH	(S)-N-Fmoc-1,2,3,4-tetrahydroisoquinoline-3-carboxylic acid			
≥97.0 %	C ₂₅ H ₂₁ NO ₄	M _r 399.45	[136030-33-6] 1 g; 5 g	
47437 Fmoc-D-Tic-OH	(R)-N-Fmoc-1,2,3,4-tetrahydroisoquinoline-3-carboxylic acid			
≥98.0 %	C ₂₅ H ₂₁ NO ₄	M _r 399.45	[130309-33-0] 1 g; 5 g	

03756 NEW! 	03756 (S)-2-Boc-1,2,3,4-tetrahydronorharman-3-carboxylic acid			
	≥98.0 %	C ₁₇ H ₂₀ N ₂ O ₄	M _r 316.36	[123910-26-9] 1 g; 5 g
	03757 (R)-2-Boc-1,2,3,4-tetrahydronorharman-3-carboxylic acid			
	≥98.0 %	C ₁₇ H ₂₀ N ₂ O ₄	M _r 316.36	1 g; 5 g
03755 (S)-2-Fmoc-1,2,3,4-tetrahydronorharman-3-carboxylic acid				
≥98.0 %	C ₂₇ H ₂₂ N ₂ O ₄	M _r 438.48	1 g; 5 g	
00471 (R)-2-Fmoc-1,2,3,4-tetrahydronorharman-3-carboxylic acid				
≥98.0 %	C ₂₇ H ₂₂ N ₂ O ₄	M _r 438.48	1 g	

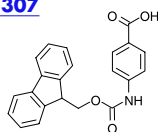
Aromatic Amino Acids

04060 	04060 4-(Boc-aminomethyl)benzoic acid			
	≥98.0 %	C ₁₃ H ₁₇ NO ₄	M _r 251.27	[33233-67-9] 1 g; 5 g
04062 4-(Fmoc-aminomethyl)benzoic acid				
≥98.0 %	C ₂₃ H ₁₉ NO ₄	M _r 373.41	[164470-64-8] 1 g; 5 g	

14971 	14971 3-(Boc-aminomethyl)benzoic acid			
	~98 %	C ₁₃ H ₁₇ NO ₄	M _r 251.28	[117445-22-4] 1 g; 5 g
47974 3-(Fmoc-aminomethyl)benzoic acid				
≥98.0 %	C ₂₃ H ₁₉ NO ₄	M _r 373.41	[155369-11-2] 1 g; 5 g	

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47307

**15299 Boc-4-Abz-OH**

≥98.0 %

4-(Boc-amino)benzoic acid

C₁₂H₁₅NO₄M_r 237.26

[66493-39-8] 1 g; 5g; 50 g

47307 Fmoc-4-Abz-OH

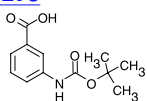
~98 %

4-(Fmoc-amino)benzoic acid

C₂₂H₁₇NO₄M_r 359.38

[185116-43-2] 1 g; 5 g

15298

**15298 Boc-3-Abz-OH**

≥97.0 %

3-(Boc-amino)benzoic acid

C₁₂H₁₅NO₄M_r 237.26

[111331-82-9] 10 g; 50 g

47952 Fmoc-3-Abz-OH

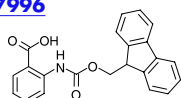
≥98.0 %

3-(Fmoc-amino)benzoic acid

C₂₂H₁₇NO₄M_r 359.38

[185116-42-1] 500 mg; 2.5 g

47996

**15297 Boc-2-Abz-OH**

≥98.0 %

2-(Boc-amino)benzoic acid

C₁₂H₁₅NO₄M_r 237.26

[68790-38-5] 10 g; 50 g

47996 Fmoc-2-Abz-OH

≥98.0 %

2-(Fmoc-amino)benzoic acid

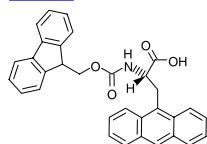
C₂₂H₁₇NO₄M_r 359.38

[150256-42-1] 1 g; 5 g

Alanine Derivatives

17313

NEW!

**17314 Boc-3-(9-anthryl)-Ala-OH**

~98 %

C₂₂H₂₃NO₄M_r 365.43

100 mg; 500 mg

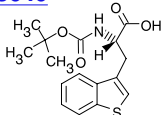
17313 Fmoc-3-(9-anthryl)-Ala-OH

~97 %

C₃₂H₂₅NO₄M_r 487.56

100 mg; 500 mg

15040

**15040 Boc-3-(3-benzothieryl)-Ala-OH**

~98 %

C₁₆H₁₉NO₄SM_r 321.39

[154902-51-9] 1 g; 5 g

15039 Boc-3-(3-benzothieryl)-D-Ala-OH

≥97.0 %

C₁₆H₁₉NO₄SM_r 321.39

[111082-76-9] 1 g; 5 g

47418 Fmoc-3-(3-benzothieryl)-Ala-OH

≥98.0 %

C₂₆H₂₁NO₄SM_r 443.52

[177966-60-8] 1 g; 5 g

47416 Fmoc-3-(3-benzothieryl)-D-Ala-OH

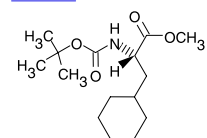
≥98.0 %

C₂₆H₂₁NO₄SM_r 443.52

[177966-61-9] 1 g; 5 g

15088

NEW!

**15477 Boc-Cha-OH H₂O**

≥99.0 %

Boc-3-cyclohexyl-L-alanine H₂OC₁₄H₂₅NO₄.aqM_r 271.36 +aq

[37736-82-6] 1 g; 5 g

15088 Boc-Cha-OMe

≥98.0 %

Boc-3-cyclohexyl-L-alanine methyl ester

C₁₅H₂₇NO₄M_r 285.38

[98105-41-0] 5 g; 25 g

15476 Boc-D-Cha-OH H₂O

≥99.0 %

Boc-3-cyclohexyl-D-alanine H₂OC₁₄H₂₅NO₄.aqM_r 271.36 +aq

[127095-92-5] 1 g; 5 g

47314 Fmoc-Cha-OH

≥98.0 %

Fmoc-3-cyclohexyl-L-alanine

C₂₄H₂₇NO₄M_r 393.48

[135673-97-1] 1 g; 5 g

47313 Fmoc-D-Cha-OH

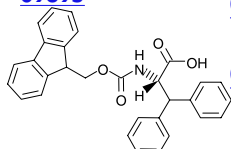
≥98.0 %

Fmoc-3-cyclohexyl-D-alanine

C₂₄H₂₇NO₄M_r 393.48

[144701-25-7] 1 g; 5 g

09895

**09896 Boc-3,3-diphenyl-Ala-OH**

≥98.0 %

C₂₀H₂₃NO₄M_r 341.41

[138662-63-2] 250 mg; 1 g

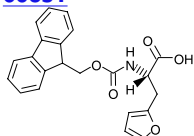
09895 Fmoc-3,3-diphenyl-Ala-OH

≥98.0 %

C₃₀H₂₅NO₄M_r 463.53

[201484-50-6] 250 mg; 1 g

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00351**09803 Boc-3-(2-furyl)-Ala-OH DCHA**

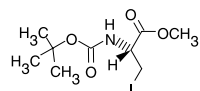
≥98.0 % $C_{12}H_{17}NO_5 \cdot C_{12}H_{23}N$ M_r 436.59 250 mg; 1 g

09804 Boc-3-(2-furyl)-D-Ala-OH DCHA

≥98.0 % $C_{12}H_{17}NO_5 \cdot C_{12}H_{23}N$ M_r 436.59 250 mg; 1 g

00351 Fmoc-3-(2-furyl)-Ala-OH

≥98.0 % $C_{22}H_{19}NO_5$ M_r 377.4 [159611-02-6] 250 mg; 1 g

15126 NEW!**15123 Boc-3-iodo-Ala-OBzl**

≥98.0 % $C_{15}H_{20}NO_4$ M_r 405.23 [108957-20-6] 1 g

15122 Boc-3-iodo-D-Ala-OBzl

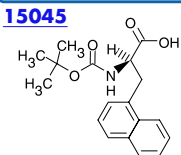
≥98.0 % $C_{15}H_{20}NO_4$ M_r 405.23 [125942-79-2] 1 g

15126 Boc-3-iodo-Ala-OMe

~98 % $C_9H_{16}NO_4$ M_r 329.14 [93267-04-0] 1 g; 5 g

15124 Boc-3-iodo-D-Ala-OMe

≥98.0 % $C_9H_{16}NO_4$ M_r 329.14 [170848-34-7] 1 g; 5 g

15045**15347 Boc-1-Nal-OH**

Boc-3-(1-naphthyl)-L-alanine
≥97.0% $C_{18}H_{21}NO_4$ M_r 315.37 [55447-00-2] 1 g; 5 g

15045 Boc-D-1-Nal-OH

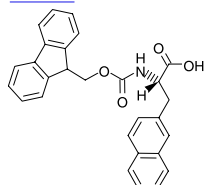
Boc-3-(1-naphthyl)-D-alanine
≥98.0 % $C_{18}H_{21}NO_4$ M_r 315.37 [76932-48-4] 1 g; 5 g

47433 Fmoc-1-Nal-OH

Fmoc-3-(1-naphthyl)-L-alanine
≥98.0 % $C_{28}H_{23}NO_4$ M_r 437.5 [96402-49-2] 1 g; 5 g

47432 Fmoc-D-1-Nal-OH

Fmoc-3-(1-naphthyl)-D-alanine
≥98.0 % $C_{28}H_{23}NO_4$ M_r 437.5 [138774-93-3] 1 g; 5 g

47772**15483 Boc-2-Nal-OH**

Boc-3-(2-naphthyl)-L-alanine
≥97.0 % $C_{18}H_{21}NO_4$ M_r 315.37 [58438-04-3] 1 g; 5 g

15478 Boc-D-2-Nal-OH

Boc-3-(2-naphthyl)-D-alanine
≥97.0 % $C_{18}H_{21}NO_4$ M_r 315.37 [76985-10-9] 1 g; 5 g

47772 Fmoc-2-Nal-OH

Fmoc-3-(2-naphthyl)-L-alanine
≥98.0 % $C_{28}H_{23}NO_4$ M_r 437.5 [112883-43-9] 1 g; 5 g

47471 Fmoc-D-2-Nal-OH

Fmoc-3-(2-naphthyl)-D-alanine
≥98.0 % $C_{28}H_{23}NO_4$ M_r 437.5 [138774-94-4] 1 g; 5 g

15026**15026 Boc-3-(2-pyridyl)-Ala-OH**

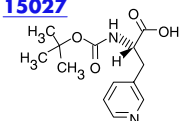
≥98.0 % $C_{13}H_{18}N_2O_4$ M_r 266.3 [71239-85-5] 1 g; 5 g

47292 Fmoc-3-(2-pyridyl)-Ala-OH

≥97.0 % $C_{23}H_{20}N_2O_4$ M_r 388.42 [185379-40-2] 1 g; 5 g

47291 Fmoc-3-(2-pyridyl)-D-Ala-OH

≥98.0 % $C_{23}H_{20}N_2O_4$ M_r 388.42 [185379-39-9] 1 g; 5 g

15027**15027 Boc-3-(3-pyridyl)-Ala-OH**

≥99.0 % $C_{13}H_{18}N_2O_4$ M_r 266.3 [117142-26-4] 1 g; 5 g

72460 Boc-3-(3-pyridyl)-D-Ala-OH

≥98.0 % $C_{13}H_{18}N_2O_4$ M_r 266.3 [98266-33-2] 1 g; 5 g

47436 Fmoc-3-(3-pyridyl)-Ala-OH

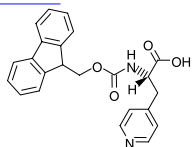
≥98.0 % $C_{23}H_{20}N_2O_4$ M_r 388.42 [175453-07-3] 1 g; 5 g

47435 Fmoc-3-(3-pyridyl)-D-Ala-OH

≥98.0 % $C_{23}H_{20}N_2O_4$ M_r 388.42 [142994-45-4] 1 g; 5 g

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47294

**15032 Boc-3-(4-pyridyl)-Ala-OH**

≥98.0 % $C_{13}H_{18}N_2O_4$ M_r 266.3 [37535-57-2] 250 mg; 1 g

15030 Boc-3-(4-pyridyl)-D-Ala-OH

≥98.0 % $C_{13}H_{18}N_2O_4$ M_r 266.3 [37535-58-3] 1 g; 5 g

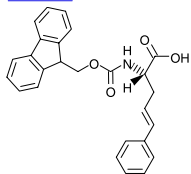
47294 Fmoc-3-(4-pyridyl)-Ala-OH

≥98.0 % $C_{23}H_{20}N_2O_4$ M_r 388.42 [169555-95-7] 1 g; 5 g

47293 Fmoc-3-(4-pyridyl)-D-Ala-OH

≥98.0 % $C_{23}H_{20}N_2O_4$ M_r 388.42 [205528-30-9] 1 g; 5 g

00352

**09799 Boc-3-styryl-Ala-OH DCHA**

≥98.0 % $C_{16}H_{21}NO_4 \cdot C_{12}H_{23}N$ M_r 472.67 250 mg; 1 g

09801 Boc-3-styryl-D-Ala-OH DCHA

≥98.0 % $C_{16}H_{21}NO_4 \cdot C_{12}H_{23}N$ M_r 472.67 250 mg; 1 g

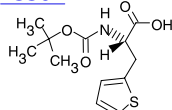
00352 Fmoc-3-styryl-Ala-OH

≥98.0 % $C_{26}H_{23}NO_4$ M_r 413.47 [159610-82-9] 250 mg; 1 g

09802 Fmoc-3-styryl-D-Ala-OH

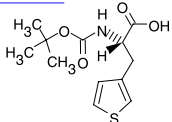
≥98.0 % $C_{26}H_{23}NO_4$ M_r 413.47 [215190-23-1] 250 mg; 1 g

15501

**15501 Boc-3-(2-thienyl)-Ala-OH**

≥98.0 % $C_{12}H_{17}NO_4S$ M_r 271.33 [56675-37-7] 1 g; 5 g

03753

**03753 Boc-3-(3-thienyl)-Ala-OH DCHA**

≥98.0 % $C_{12}H_{17}NO_4S \cdot C_{12}H_{23}N$ M_r 452.65 250 mg; 1 g

03754 Boc-3-(3-thienyl)-D-Ala-OH DCHA

≥98.0 % $C_{12}H_{17}NO_4S \cdot C_{12}H_{23}N$ M_r 452.65 250 mg; 1 g

00346 Fmoc-3-(3-thienyl)-Ala-OH

≥98.0 % $C_{22}H_{19}NO_4S$ M_r 393.46 [186320-06-9] 250 mg; 1 g

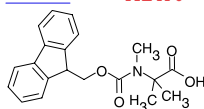
03752 Fmoc-3-(3-thienyl)-D-Ala-OH

≥98.0 % $C_{22}H_{19}NO_4S$ M_r 393.46 [220497-90-5] 250 mg; 1 g

Aib Derivatives

29250

NEW!

**15466 Boc-α-Me-Ala-OH**

≥99.0 % Boc-Aib-OH $C_9H_{17}NO_4$ 2-(Boc-amino)isobutyric acid M_r 203.24 [30992-29-1] 1 g; 5 g; 25 g

10927 Boc-N-Me-Aib-OH

≥98.0 % $C_{10}H_{19}NO_4$ M_r 217.26 [146000-39-7] 1 g; 5 g

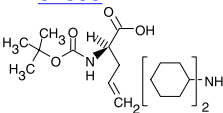
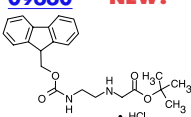
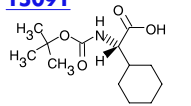
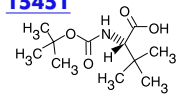
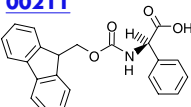

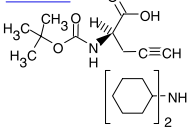
47691 Fmoc-α-Me-Ala-OH

≥98.0 % Fmoc-Aib-OH $C_{19}H_{19}NO_4$ 2-(Fmoc-amino)isobutyric acid M_r 325.36 [94744-50-0] 1 g; 5 g

29250 Fmoc-N-Me-Aib-OH

~98.0 % $C_{19}H_{19}NO_4$ M_r 339.39 1 g; 5 g

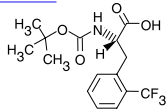
Glycine Derivatives

	09808	Boc-allyl-Gly-OH DCHA	$\geq 98.0\%$	$C_{10}H_{17}NO_4 \cdot C_{12}H_{23}N$	M_r 396.57	[143979-15-1]	250 mg; 1 g		
	09808	Boc-D-allyl-Gly-OH DCHA	$\geq 98.0\%$	$C_{10}H_{17}NO_4 \cdot C_{12}H_{23}N$	M_r 396.57		250 mg; 1 g		
	00347	Fmoc-allyl-Gly-OH	$\geq 98.0\%$	$C_{20}H_{19}NO_4$	M_r 337.38	[146549-21-5]	250 mg; 1 g		
	09807	Fmoc-D-allyl-Gly-OH	$\sim 98\%$	$C_{20}H_{19}NO_4$	M_r 337.38	[170642-28-1]	250 mg; 1 g		
	09660	NEW!	15035	(Boc-aminoxy)acetic acid	$\geq 98.0\%$	$C_7H_{13}NO_5$	M_r 191.18	[42989-85-5]	1 g; 5 g
			09660	N-[2-(Fmoc-amino)-ethyl]-Gly-O-tBu HCl	$\geq 98.0\%$	$C_{23}H_{28}N_2O_4 \cdot HCl$	M_r 432.95	[169396-88-7]	1 g; 5 g
	15091	Boc-Chg-OH	$\geq 98.0\%$	Boc-L-2-cyclohexylglycine	$C_{13}H_{23}NO_4$	M_r 257.33	[109183-71-3]	1 g; 5 g	
	15089	Boc-D-Chg-OH	$\geq 98.0\%$	Boc-D-2-cyclohexylglycine	$C_{13}H_{23}NO_4$	M_r 257.33	[70491-05-3]	1 g; 5 g	
	15451	Boc-tBu-Gly-OH	$\geq 99.0\%$	(S)-N-Boc-2-amino-3,3-dimethylbutyric acid, Boc-L-tert.-leucine, Boc-Tle-OH	$C_{11}H_{21}NO_4$	M_r 231.29	[62965-35-9]	1 g; 5 g; 25 g	
	47524	Fmoc-tBu-Gly-OH	$\geq 98.0\%$	(S)-N-Fmoc-2-amino-3,3-dimethylbutyric acid, Fmoc-L-tert-leucine, Fmoc-Tle-OH	$C_{21}H_{23}NO_4$	M_r 353.42	[132684-60-7]	2.5 g; 10 g	
	00211	Boc-Phg-OH	$\geq 99.0\%$	Boc-L-2-phenylglycine	$C_{13}H_{17}NO_4$	M_r 251.28	[2900-27-8]	1 g; 5 g	
	15487	Boc-D-Phg-OH	$\geq 99.0\%$	Boc-D-2-phenylglycine	$C_{13}H_{17}NO_4$	M_r 251.29	[33125-05-2]	1 g; 5 g	
	47531	Fmoc-Phg-OH	$\geq 98.0\%$	Fmoc-L-2-phenylglycine	$C_{23}H_{19}NO_4$	M_r 373.41	[102410-65-1]	1 g; 5 g	
	00211	Fmoc-D-Phg-OH	$\geq 98.0\%$	Fmoc-L-2-phenylglycine	$C_{23}H_{19}NO_4$	M_r 373.41	[111524-95-9]	1 g; 5 g	
	58709	NEW!	58709	Fmoc-N-(Boc-4-piperidyl)glycine	$\geq 98.0\%$	$C_{27}H_{32}N_2O_6$	M_r 480.56		1 g; 5 g
	09797	Boc-propargyl-Gly-OH DCHA	$\geq 98.0\%$	$C_{10}H_{15}NO_4 \cdot C_{12}H_{23}N$	M_r 394.55	[63039-49-6]	250 mg; 1 g		
	09797	Boc-D-propargyl-Gly-OH DCHA	$\geq 98.0\%$	$C_{10}H_{15}NO_4 \cdot C_{12}H_{23}N$	M_r 394.55	[63039-47-4]	250 mg; 1 g		
	00397	Fmoc-propargyl-Gly-OH	$\geq 98.0\%$	$C_{20}H_{17}NO_4$	M_r 335.36	[198561-07-8]	250 mg; 1 g		
	09798	Fmoc-D-propargyl-Gly-OH	$\geq 98.0\%$	$C_{20}H_{17}NO_4$	M_r 335.36	[220497-98-3]	250 mg; 1 g		

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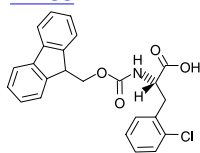
Ortho-substituted Phenylalanines

15011



15011	Boc-Phe(2-CF₃)-OH	Boc-2-(trifluoromethyl)-L-phenylalanine		
	≥98.0 %	C ₁₅ H ₁₈ F ₃ NO ₄	M _r 333.31	[167993-21-7] 1 g; 5 g
15009	Boc-D-Phe(2-CF₃)-OH	Boc-2-(trifluoromethyl)-D-phenylalanine		
	≥98.0 %	C ₁₅ H ₁₈ F ₃ NO ₄	M _r 333.31	1 g; 5 g
47826	Fmoc-Phe(2-CF₃)-OH	Fmoc-2-(trifluoromethyl)-L-phenylalanine		
	≥98.0 %	C ₂₅ H ₂₀ F ₃ NO ₄	M _r 455.43	1 g; 5 g
47824	Fmoc-D-Phe(2-CF₃)-OH	Fmoc-2-(trifluoromethyl)-D-phenylalanine		
	≥98.0 %	C ₂₅ H ₂₀ F ₃ NO ₄	M _r 455.43	1 g; 5 g

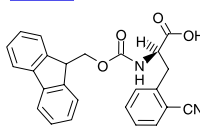
47766



15021	Boc-Phe(2-Cl)-OH	Boc-2-chloro-L-phenylalanine		
	≥98.0 %	C ₁₄ H ₁₈ ClNO ₄	M _r 299.75	[114873-02-8] 1 g; 5 g
15018	Boc-D-Phe(2-Cl)-OH	Boc-2-chloro-D-phenylalanine		
	≥98.0 %	C ₁₄ H ₁₈ ClNO ₄	M _r 299.75	[80102-23-4] 1 g; 5 g
47766	Fmoc-Phe(2-Cl)-OH	Fmoc-2-chloro-L-phenylalanine		
	≥98.0 %	C ₂₄ H ₂₀ ClNO ₄	M _r 421.88	[198560-41-7] 1 g; 5 g
47765	Fmoc-D-Phe(2-Cl)-OH	Fmoc-2-chloro-D-phenylalanine		
	≥97.0 %	C ₂₄ H ₂₀ ClNO ₄	M _r 421.88	[205526-22-3] 1 g; 5 g

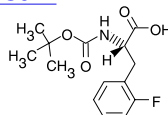
47802

NEW!



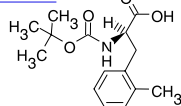
14984	Boc-Phe(2-CN)-OH	Boc-2-cyano-L-phenylalanine		
	≥98.0 %	C ₁₅ H ₁₈ N ₂ O ₄	M _r 290.32	[216312-53-7] 1 g; 5 g
14983	Boc-D-Phe(2-CN)-OH	Boc-2-cyano-D-phenylalanine		
	≥98.0 %	C ₁₅ H ₁₈ N ₂ O ₄	M _r 290.32	1 g; 5 g
47803	Fmoc-Phe(2-CN)-OH	Fmoc-2-cyano-L-phenylalanine		
	≥98.0 %	C ₂₅ H ₂₀ N ₂ O ₄	M _r 412.44	1 g; 5 g
47802	Fmoc-D-Phe(2-CN)-OH	Fmoc-2-cyano-D-phenylalanine		
	≥98.0 %	C ₂₅ H ₂₀ N ₂ O ₄	M _r 412.44	1 g; 5 g

15024



15024	Boc-Phe(2-F)-OH	Boc-2-fluoro-L-phenylalanine		
	≥98.0 %	C ₁₄ H ₁₈ FNO ₄	M _r 283.3	[114873-00-6] 1 g; 5 g
15023	Boc-D-Phe(2-F)-OH	Boc-2-fluoro-D-phenylalanine		
	≥98.0 %	C ₁₄ H ₁₈ FNO ₄	M _r 283.3	[114873-10-8] 1 g; 5 g
47769	Fmoc-Phe(2-F)-OH	Fmoc-2-fluoro-L-phenylalanine		
	~98 %	C ₂₄ H ₂₀ FNO ₄	M _r 405.43	[205526-26-7] 1 g; 5 g
47767	Fmoc-D-Phe(2-F)-OH	Fmoc-2-fluoro-D-phenylalanine		
	≥98.0 %	C ₂₄ H ₂₀ FNO ₄	M _r 405.43	[198545-45-9] 1 g; 5 g

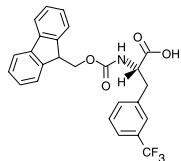
14997



14998	Boc-Phe(2-Me)-OH	Boc-2-methyl-L-phenylalanine		
	≥98.0 %	C ₁₅ H ₂₁ NO ₄	M _r 279.34	[114873-05-1] 1 g; 5 g
14997	Boc-D-Phe(2-Me)-OH	Boc-2-methyl-D-phenylalanine		
	≥98.0 %	C ₁₅ H ₂₁ NO ₄	M _r 279.34	[80102-29-0] 1 g; 5 g
47817	Fmoc-Phe(2-Me)-OH	Fmoc-2-methyl-L-phenylalanine		
	≥98.0 %	C ₂₅ H ₂₃ NO ₄	M _r 401.46	[211637-75-1] 1 g; 5 g
47816	Fmoc-D-Phe(2-Me)-OH	Fmoc-2-methyl-D-phenylalanine		
	≥98.0 %	C ₂₅ H ₂₃ NO ₄	M _r 401.46	1 g; 5 g

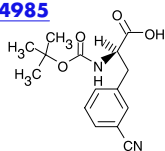
Meta-substituted Phenylalanines

47833



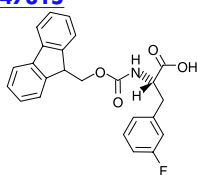
15013	Boc-Phe(3-CF₃)-OH	Boc-3-(trifluoromethyl)-L-phenylalanine	$C_{15}H_{18}F_3NO_4$	M_r 333.31	[142995-31-1]	1 g; 5 g
	≥98.0 %					
15012	Boc-D-Phe(3-CF₃)-OH	Boc-3-(trifluoromethyl)-D-phenylalanine	$C_{15}H_{18}F_3NO_4$	M_r 333.31	[82317-82-6]	1 g; 5 g
	≥98.0 %					
47833	Fmoc-Phe(3-CF₃)-OH	Fmoc-3-(trifluoromethyl)-L-phenylalanine	$C_{25}H_{20}F_3NO_4$	M_r 455.43	[205526-27-8]	1 g; 5 g
	≥98.0 %					
47832	Fmoc-D-Phe(3-CF₃)-OH	Fmoc-3-(trifluoromethyl)-D-phenylalanine	$C_{25}H_{20}F_3NO_4$	M_r 455.43	[205526-28-9]	1 g; 5 g
	≥98.0 %					

14985



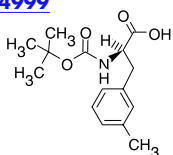
14986	Boc-Phe(3-CN)-OH	Boc-3-cyano-L-phenylalanine	$C_{15}H_{18}N_2O_4$	M_r 290.32	[131980-30-8]	1 g; 5 g
	≥98.0 %					
14985	Boc-D-Phe(3-CN)-OH	Boc-3-cyano-D-phenylalanine	$C_{15}H_{18}N_2O_4$	M_r 290.32	[205445-56-3]	1 g; 5 g
	≥98.0 %					
47805	Fmoc-Phe(3-CN)-OH	Fmoc-3-cyano-L-phenylalanine	$C_{25}H_{20}N_2O_4$	M_r 412.44	[205526-36-9]	1 g; 5 g
	≥98.0 %					
47804	Fmoc-D-Phe(3-CN)-OH	Fmoc-3-cyano-D-phenylalanine	$C_{25}H_{20}N_2O_4$	M_r 412.44	[205526-37-0]	1 g; 5 g
	≥98.0 %					

47815



14996	Boc-Phe(3-F)-OH	Boc-3-fluoro-L-phenylalanine	$C_{14}H_{18}FNO_4$	M_r 283.3	[114873-01-7]	1 g; 5 g
	≥98.0 %					
14995	Boc-D-Phe(3-F)-OH	Boc-3-fluoro-D-phenylalanine	$C_{14}H_{18}FNO_4$	M_r 283.3	[114873-11-9]	1 g; 5 g
	≥98.0 %					
47815	Fmoc-Phe(3-F)-OH	Fmoc-3-fluoro-L-phenylalanine	$C_{24}H_{20}FNO_4$	M_r 405.43	[198560-68-8]	1 g; 5 g
	≥98.0 %					
47814	Fmoc-D-Phe(3-F)-OH	Fmoc-3-fluoro-D-phenylalanine	$C_{24}H_{20}FNO_4$	M_r 405.43	[198545-72-1]	1 g; 5 g
	~98 %					

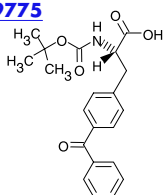
14999



15002	Boc-Phe(3-Me)-OH	Boc-3-methyl-L-phenylalanine	$C_{15}H_{21}NO_4$	M_r 279.34	[114873-06-2]	1 g; 5 g
	≥98.0 %					
14999	Boc-D-Phe(3-Me)-OH	Boc-3-methyl-D-phenylalanine	$C_{15}H_{21}NO_4$	M_r 279.34	[114873-14-2]	1 g; 5 g
	≥98.0 %					
47819	Fmoc-Phe(3-Me)-OH	Fmoc-3-methyl-L-phenylalanine	$C_{25}H_{23}NO_4$	M_r 401.46	[211637-74-0]	1 g; 5 g
	≥98.0 %					
47818	Fmoc-D-Phe(3-Me)-OH	Fmoc-3-methyl-D-phenylalanine	$C_{25}H_{23}NO_4$	M_r 401.46		1 g; 5 g
	≥98.0 %					

Para-substituted Phenylalanines

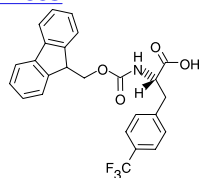
09775



09775	Boc-Bpa-OH	Boc-4-benzoyl-L-phenylalanine	$C_{21}H_{23}NO_5$	M_r 369.42	[104504-43-0]	250 mg; 1 g
	~98 %					
09776	Boc-D-Bpa-OH	Boc-4-benzoyl-D-phenylalanine	$C_{21}H_{23}NO_5$	M_r 369.42	[117666-94-1]	250 mg; 1 g
	~98 %					
09774	Fmoc-Bpa-OH	Fmoc-4-benzoyl-L-phenylalanine	$C_{31}H_{25}NO_5$	M_r 491.54	[117666-96-3]	250 mg; 1 g
	≥98.0 %					
09773	Fmoc-D-Bpa-OH	Fmoc-4-benzoyl-D-phenylalanine	$C_{31}H_{25}NO_5$	M_r 491.54	[117666-97-4]	250 mg; 1 g
	≥98.0 %					

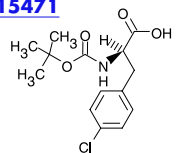
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47835



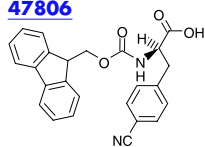
15017	Boc-Phe(4-CF₃)-OH	Boc-4-(trifluoromethyl)-L-phenylalanine			
	≥98.0 %	C ₁₅ H ₁₈ F ₃ NO ₄	M _r 333.31	[114873-07-3]	1 g; 5 g
15016	Boc-D-Phe(4-CF₃)-OH	Boc-4-(trifluoromethyl)-D-phenylalanine			
	≥98.0 %	C ₁₅ H ₁₈ F ₃ NO ₄	M _r 333.31	[82317-83-7]	1 g; 5 g
47835	Fmoc-Phe(4-CF₃)-OH	Fmoc-4-(trifluoromethyl)-L-phenylalanine			
	≥98.0 %	C ₂₅ H ₂₀ F ₃ NO ₄	M _r 455.43		1 g; 5 g
47834	Fmoc-D-Phe(4-CF₃)-OH	Fmoc-4-(trifluoromethyl)-D-phenylalanine			
	≥98.0 %	C ₂₅ H ₂₀ F ₃ NO ₄	M _r 455.43		1 g; 5 g

15471



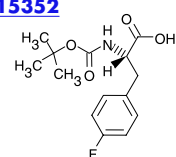
15472	Boc-Phe(4-Cl)-OH	Boc-4-chloro-L-phenylalanine			
	~98 %	C ₁₄ H ₁₈ ClNO ₄	M _r 299.75	[68090-88-0]	1 g; 5 g
15471	Boc-D-Phe(4-Cl)-OH	Boc-4-chloro-D-phenylalanine			
	~98 %	C ₁₄ H ₁₈ ClNO ₄	M _r 299.75	[57292-44-1]	1 g; 5 g
47424	Fmoc-Phe(4-Cl)-OH	Fmoc-4-chloro-L-phenylalanine			
	≥98.0 %	C ₂₄ H ₂₀ ClNO ₄	M _r 421.88	[175453-08-4]	1 g; 5 g
47420	Fmoc-D-Phe(4-Cl)-OH	Fmoc-4-chloro-D-phenylalanine			
	≥98.0 %	C ₂₄ H ₂₀ ClNO ₄	M _r 421.88	[142994-19-2]	1 g; 5 g

47806



14988	Boc-Phe(4-CN)-OH	Boc-4-cyano-L-phenylalanine			
	≥98.0 %	C ₁₅ H ₁₈ N ₂ O ₄	M _r 290.32	[131724-45-3]	1 g; 5 g
14987	Boc-D-Phe(4-CN)-OH	Boc-4-cyano-D-phenylalanine			
	≥97.0 %	C ₁₅ H ₁₈ N ₂ O ₄	M _r 290.32	[146727-62-0]	1 g; 5 g
47807	Fmoc-Phe(4-CN)-OH	Fmoc-4-cyano-L-phenylalanine			
	≥98.0 %	C ₂₅ H ₂₀ N ₂ O ₄	M _r 412.44	[173963-93-4]	1 g; 5 g
47806	Fmoc-D-Phe(4-CN)-OH	Fmoc-4-cyano-D-phenylalanine			
	≥98.0 %	C ₂₅ H ₂₀ N ₂ O ₄	M _r 412.44	[205526-34-7]	1 g; 5 g

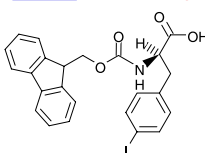
15352



15352	Boc-Phe(4-F)-OH	Boc-4-fluoro-L-phenylalanine			
	≥99.0 %	C ₁₄ H ₁₈ FNO ₄	M _r 283.3	[41153-30-4]	1 g; 5 g
15351	Boc-D-Phe(4-F)-OH	Boc-4-fluoro-D-phenylalanine			
	≥99.0 %	C ₁₄ H ₁₈ FNO ₄	M _r 283.3	[57292-45-2]	1 g; 5 g
47428	Fmoc-Phe(4-F)-OH	Fmoc-4-fluoro-L-phenylalanine			
	≥98.0 %	C ₂₄ H ₂₀ FNO ₄	M _r 405.43	[169243-86-1]	1 g; 5 g
47427	Fmoc-D-Phe(4-F)-OH	Fmoc-4-fluoro-D-phenylalanine			
	≥98.0 %	C ₂₄ H ₂₀ FNO ₄	M _r 405.43	[177966-64-2]	1 g; 5 g

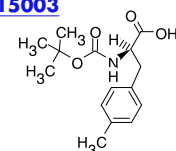
47770

NEW!



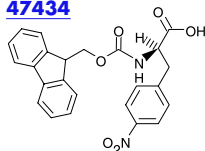
15346	Boc-Phe(4-I)-OH	Boc-4-iodo-L-phenylalanine			
	≥99.0 %	C ₁₄ H ₁₈ INO ₄	M _r 391.21	[62129-44-6]	1 g; 5 g
15044	Boc-D-Phe(4-I)-OH	Boc-4-iodo-D-phenylalanine			
	≥98.0 %	C ₁₄ H ₁₈ INO ₄	M _r 391.21	[176199-35-2]	1 g; 5 g
47431	Fmoc-Phe(4-I)-OH	Fmoc-4-iodo-L-phenylalanine			
	≥98.0 %	C ₂₄ H ₂₀ INO ₄	M _r 513.33	[82565-68-2]	1 g; 5 g
47770	Fmoc-D-Phe(4-I)-OH	Fmoc-4-iodo-D-phenylalanine			
	~98 %	C ₂₄ H ₂₀ INO ₄	M _r 513.33		1 g; 5 g

15003



15006	Boc-Phe(4-Me)-OH	Boc-4-methyl-L-phenylalanine			
	≥98.0 %	C ₁₅ H ₂₁ NO ₄	M _r 279.34	[80102-26-7]	1 g; 5 g
15003	Boc-D-Phe(4-Me)-OH	Boc-4-methyl-D-phenylalanine			
	≥98.0 %	C ₁₅ H ₂₁ NO ₄	M _r 279.34	[80102-27-8]	1 g; 5 g
47823	Fmoc-Phe(4-Me)-OH	Fmoc-4-methyl-L-phenylalanine			
	≥98.0 %	C ₂₅ H ₂₃ NO ₄	M _r 401.46	[199006-54-7]	1 g; 5 g
47821	Fmoc-D-Phe(4-Me)-OH	Fmoc-4-methyl-D-phenylalanine			
	≥98.0 %	C ₂₅ H ₂₃ NO ₄	M _r 401.46	[204260-38-8]	1 g; 5 g

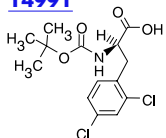
47434



15348	Boc-Phe(4-NO₂)-OH	Boc-4-nitro-L-phenylalanine			
	~99 %	C ₁₄ H ₁₈ N ₂ O ₆	M _r 310.31	[33305-77-0]	1 g; 5 g
15174	Boc-D-Phe(4-NO₂)-OH	Boc-4-nitro-D-phenylalanine			
	≥98.0 %	C ₁₄ H ₁₈ N ₂ O ₆	M _r 310.31	[61280-75-9]	1 g; 5 g; 25 g
47472	Fmoc-Phe(4-NO₂)-OH	Fmoc-4-nitro-L-phenylalanine			
	~98 %	C ₂₄ H ₂₀ N ₂ O ₆	M _r 432.43	[95753-55-2]	1 g; 5 g
47434	Fmoc-D-Phe(4-NO₂)-OH	Fmoc-4-nitro-D-phenylalanine			
	≥98.0 %	C ₂₄ H ₂₀ N ₂ O ₆	M _r 432.43	[177966-63-1]	1 g; 5 g

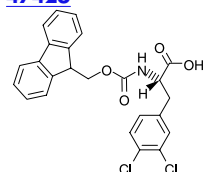
di-substituted Phenylalanines

14991



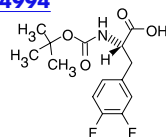
14992	Boc-Phe(2,4-Cl₂)-OH	Boc-2,4-dichloro-L-phenylalanine			
	≥98.0 %	C ₁₄ H ₁₇ Cl ₂ NO ₄	M _r 334.2	[114873-04-0]	1 g; 5 g
14991	Boc-D-Phe(2,4-Cl₂)-OH	Boc-2,4-dichloro-D-phenylalanine			
	≥98.0 %	C ₁₄ H ₁₇ Cl ₂ NO ₄	M _r 334.2	[114873-12-0]	1 g; 5 g
47809	Fmoc-Phe(2,4-Cl₂)-OH	Fmoc-2,4-dichloro-L-phenylalanine			
	≥98.0 %	C ₂₄ H ₁₉ Cl ₂ NO ₄	M _r 456.33		1 g; 5 g
47808	Fmoc-D-Phe(2,4-Cl₂)-OH	Fmoc-2,4-dichloro-D-phenylalanine			
	≥98.0 %	C ₂₄ H ₁₉ Cl ₂ NO ₄	M _r 456.33		1 g; 5 g

47426



15042	Boc-Phe(3,4-Cl₂)-OH	Boc-3,4-dichloro-L-phenylalanine			
	≥98.0 %	C ₁₄ H ₁₇ Cl ₂ NO ₄	M _r 334.2	[80741-39-5]	1 g; 5 g
15041	Boc-D-Phe(3,4-Cl₂)-OH	Boc-3,4-dichloro-D-phenylalanine			
	≥98.0 %	C ₁₄ H ₁₇ Cl ₂ NO ₄	M _r 334.2	[114873-13-1]	1 g; 5 g
47426	Fmoc-Phe(3,4-Cl₂)-OH	Fmoc-3,4-dichloro-L-phenylalanine			
	~98 %	C ₂₄ H ₁₉ Cl ₂ NO ₄	M _r 456.33	[177966-59-5]	1 g; 5 g
47425	Fmoc-D-Phe(3,4-Cl₂)-OH	Fmoc-3,4-dichloro-D-phenylalanine			
	~98 %	C ₂₄ H ₁₉ Cl ₂ NO ₄	M _r 456.33	[177966-58-4]	1 g; 5 g

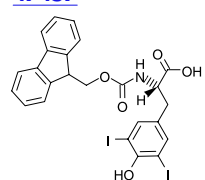
14994



14994	Boc-Phe(3,4-F₂)-OH	Boc-3,4-difluoro-L-phenylalanine			
	≥98.0 %	C ₁₄ H ₁₇ F ₂ NO ₄	M _r 301.29	[198474-90-7]	1 g; 5 g
14993	Boc-D-Phe(3,4-F₂)-OH	Boc-3,4-difluoro-D-phenylalanine			
	≥98.0 %	C ₁₄ H ₁₇ F ₂ NO ₄	M _r 301.29	[205445-51-8]	1 g; 5 g
47813	Fmoc-Phe(3,4-F₂)-OH	Fmoc-3,4-difluoro-L-phenylalanine			
	≥98.0 %	C ₂₄ H ₁₉ F ₂ NO ₄	M _r 423.42	[198560-43-9]	1 g; 5 g
47812	Fmoc-D-Phe(3,4-F₂)-OH	Fmoc-3,4-difluoro-D-phenylalanine			
	≥98.0 %	C ₂₄ H ₁₉ F ₂ NO ₄	Mr423.42	198545-59-4	1 g; 5 g

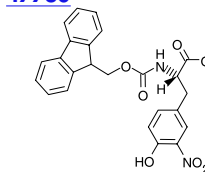
substituted Tyrosines

47457



15092	Boc-Tyr(3,5-I₂)-OH	Boc-3,5-diiodo-L-tyrosine			
	>98.0 %	C ₁₄ H ₁₇ NO ₅	M _r 533.10	[62129-53-7]	1 g; 5 g
15093	Boc-Tyr(3,5-I₂)-OSu	Boc-3,5-diiodo-L-tyrosine OSu			
	≥97.0 %	C ₁₈ H ₂₀ N ₂ O ₇	M _r 630.17	[163679-35-4]	1 g; 5 g
47457	Fmoc-Tyr(3,5-I₂)-OH	Fmoc-3,5-diiodo-L-tyrosine			
	>98.0 %	C ₂₄ H ₁₉ NO ₅	M _r 655.23	[103213-31-6]	1 g; 5 g

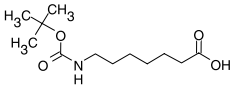
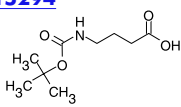
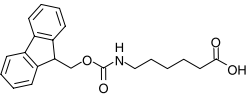
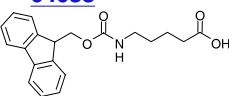
47780



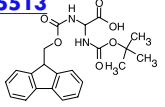
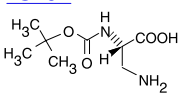
47780	Fmoc-Tyr(3-NO₂)-OH	Fmoc-3-nitro-L-tyrosine			
	≥98.0 %	C ₂₄ H ₂₀ N ₂ O ₇	M _r 448.43	[136590-09-5]	1 g; 5 g

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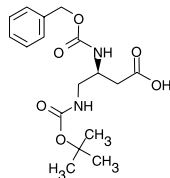
Linear Core Amino Acids

15295	09780	Boc-12-Ado-OH	12-(Boc-amino)dodecanoic acid			
	14972	Boc-8-Aoc-OH	8-(Boc-amino)caprylic acid	$C_{17}H_{33}NO_4$	M_r 315.45	[18934-81-1] 500 mg
	15295	Boc-7-Ahp-OH	7-(Boc-amino)enanthic acid	$C_{13}H_{25}NO_4$	M_r 259.35	[30100-16-4] 1 g; 5 g
	15395	Boc-6-Ahx-OH	6-(Boc-amino)caproic acid	$C_{12}H_{23}NO_4$	M_r 245.3	[60142-89-4] 500 mg; 2.5 g
15294	15296	Boc-5-Ava-OH	5-(Boc-amino)pentanoic acid	$C_{11}H_{21}NO_4$	M_r 231.3	[6404-29-1] 1 g; 5 g
	15294	Boc-GABA-OH	4-(Boc-amino)butyric acid	$C_{10}H_{19}NO_4$	M_r 217.25	[27219-07-4] 1 g; 5 g
	15382	Boc-β-Ala-OH	Boc-β-alanine	$C_9H_{17}NO_4$	M_r 203.23	[57294-38-9] 1 g; 5 g
				$C_8H_{15}NO_4$	M_r 189.21	[3303-84-2] 5 g; 25; 100 g
04067	09779	Fmoc-12-Ado-OH	12-(Fmoc-amino)dodecanoic acid			
	04068	Fmoc-11-Aun-OH	11-(Fmoc-amino)undecanoic acid	$C_{27}H_{35}NO_4$	M_r 437.58	[128917-74-8] 500 mg
	47998	Fmoc-8-Aoc-OH	8-(Fmoc-amino)caprylic acid	$C_{26}H_{33}NO_4$	M_r 423.55	[88574-07-6] 1 g; 5 g
	04072	Fmoc-7-Ahp-OH	7-(Fmoc-amino)enanthic acid	$C_{23}H_{27}NO_4$	M_r 381.47	[126631-93-4] 500 mg; 2.5 g
	04067	Fmoc-6-Ahx-OH	6-(Fmoc-amino)caproic acid	$C_{22}H_{25}NO_4$	M_r 367.45	[127582-76-7] 500 mg; 2.5 g
04066	04066	Fmoc-5-Ava-OH	5-(Fmoc-amino)pentanoic acid	$C_{21}H_{23}NO_4$	M_r 353.42	[88574-06-5] 1 g; 5 g
	04066	Fmoc-5-Ava-OH	5-(Fmoc-amino)pentanoic acid	$C_{20}H_{21}NO_4$	M_r 339.39	[123622-48-0] 1 g; 5 g
	04069	Fmoc-GABA-OH	4-(Fmoc-amino)butyric acid	$C_{19}H_{19}NO_4$	M_r 325.36	[116821-47-7] 1 g; 5 g
	47587	Fmoc-β-Ala-OH	Fmoc-β-alanine	$C_{18}H_{17}NO_4$	M_r 311.34	[35737-10-1] 1 g; 5 g; 25 g

Diamino Acids

15513	15513	N-Boc-N'-Fmoc-diaminoacetic acid				
				$C_{22}H_{24}N_2O_6$	M_r 412.44	[176039-39-7] 1 g; 5 g
15402	15402	Boc-Dap-OH	N-α-Boc-L-2,3-diaminopropionic acid	$C_8H_{16}N_2O_4$	M_r 204.23	[73259-81-1] 1 g; 5 g
	47552	Fmoc-Dap-OH	N-α-Fmoc-L-2,3-diaminopropionic acid	$C_{18}H_{18}N_2O_4$	M_r 326.35	[181954-34-7] 1 g; 5 g
	47551	Fmoc-Dap(Boc)-OH	N-α-Fmoc-N-β-Boc-L-2,3-diaminopropionic acid	$C_{23}H_{26}N_2O_6$	M_r 426.47	[162558-25-0] 500 mg; 2.5 g
	47546	Fmoc-Dap(Alloc)-OH	N-α-Fmoc-N-β-Alloc-L-2,3-diaminopropionic acid	$C_{22}H_{22}N_2O_6$	M_r 410.43	[188970-92-5] 250 mg; 1 g

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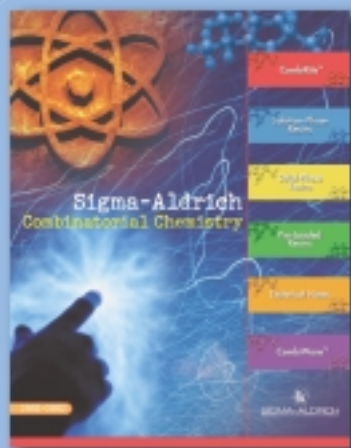
17817 **NEW!**

17974	Z-β-Dab(Boc)-OH	(R)-4-(Boc-amino)-3-(Z-amino)butyric acid ≥98.0 %	$C_{17}H_{24}N_2O_6$	M_r 352.39	[108919-51-3]	250 mg; 1 g
28206	Z-β-D-Dab(Boc)-OH	(S)-4-(Boc-amino)-3-(Z-amino)butyric acid ≥98.0 %	$C_{17}H_{24}N_2O_6$	M_r 352.39	[96186-30-0]	250 mg; 1 g
21622	Z-β-Dab(Fmoc)-OH	(R)-4-(Fmoc-amino)-3-(Z-amino)butyric acid ≥98.0 %	$C_{27}H_{26}N_2O_6$	M_r 474.51		250 mg; 1 g
17984	Z-β-D-Dab(Fmoc)-OH	(S)-4-(Fmoc-amino)-3-(Z-amino)butyric acid ≥98.0 %	$C_{27}H_{26}N_2O_6$	M_r 474.51		250 mg; 1 g

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	15392	N-Boc-1,6-hexanediamine HCl				
		≥98.0 %	$C_{11}H_{24}N_2O_2 \cdot HCl$	M_r 252.79	[65915-94-8]	1 g; 5 g
NEW!	79229	N-Boc-1,6-hexanediamine				
		≥97.0 %	$C_{11}H_{24}N_2O_2$	M_r 216.32		1 g; 5 g
	15406	N-Boc-1,5-pentanediamine				
		≥97.0 %	$C_{10}H_{22}N_2O_2$	M_r 202.3	[51644-96-3]	1 ml; 5 ml
	15485	N-Boc-p-phenylenediamine				
		≥97.0 %	$C_{11}H_{16}N_2O_2$	M_r 208.26	[71026-66-9]	1 g; 5 g; 25 g
	15404	N-Boc-1,4-butanediamine				
		≥97.0 %	$C_9H_{20}N_2O_2$	M_r 188.27	[68076-36-8]	1 ml; 5 ml
	15408	N-Boc-1,3-propanediamine				
		≥97.0 %	$C_8H_{18}N_2O_2$	M_r 174.24	[75178-96-0]	1 ml; 5 ml
	15369	N-Boc-ethylenediamine				
		≥98.0 %	$C_7H_{16}N_2O_2$	M_r 160.22	[57260-73-8]	1 g; 5 g
	15567	N-Boc-N-methylethylenediamine				
		≥98.0 %	$C_8H_{18}N_2O_2$	M_r 174.24	[121492-06-6]	1 ml; 5 ml
	15502	1-Boc-piperazine				
		≥98.0 %	$C_9H_{18}N_2O_2$	M_r 186.25	[57260-71-6]	5 g; 25 g
NEW!	17759	1-Boc-homopiperazine				
		≥98.0 %	1-Boc-hexahydro-1,4-diazepine $C_{10}H_{20}N_2O_2$	M_r 200.28	[112275-50-0]	5 ml; 25 ml



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12802	(Benzotriazol-1-yloxy)tris(dimethylamino)phosphonium hexafluorophosphate BOP				
≥98.0 %	$C_{12}H_{22}F_6N_6OP_2$	M_r 442.29	[56602-33-6]		5 g; 25 g
12805	(Benzotriazol-1-yloxy)tripyrrolidinophosphonium hexafluorophosphate PyBOP				
≥97.0 %	$C_{18}H_{28}F_6N_6OP_2$	M_r 520.4	[128625-52-5]		1 g; 5 g; 25 g
18565	Bromotripyrrolidinophosphonium hexafluorophosphate PyBroP®				
~96 %	$C_{12}H_{24}BrF_6N_3P_2$	M_r 466.18	[132705-51-2]		1 g; 5 g; 25 g
PyBroP is a registered trademark of Calbiochem-Novabiochem					
18570	Bromotris(dimethylamino)phosphonium hexafluorophosphate BroP				
≥98.0 %	$C_6H_{18}BrF_6N_3P_2$	M_r 388.07	[50296-37-2]		1 g; 5 g; 25 g
26564	Chlorotripyrrolidinophosphonium hexafluorophosphate PyCloP				
≥98.0 %	$C_{12}H_{24}ClF_6N_3P_2$	M_r 421.74	[133894-48-1]		1 g; 5 g; 25 g
12804	O-(Benzotriazol-1-yl)-N,N,N',N'-tetramethyluronium hexafluorophosphate HBTU				
≥97.0 %	$C_{11}H_{16}F_6N_5OP$	M_r 379.25	[94790-37-1]		1 g; 5 g; 25 g
12806	O-(Benzotriazol-1-yl)-N,N,N',N'-tetramethyluronium tetrafluoroborate TBTU				
~98 %	$C_{11}H_{16}BF_4N_5O$	M_r 321.08	[125700-67-6]		5 g; 25 g
11373	O-(7-Azabenzotriazol-1-yl)-N,N,N',N'-tetramethyluronium hexafluorophosphate HATU				
≥98.0 %	$C_{10}H_{15}F_6N_6OP$	M_r 380.23	[148893-10-1]		1 g; 5 g; 25 g
02580	O-[(Ethoxycarbonyl)cyanomethylenamino]-N,N,N',N'-tetramethyluronium tetrafluoroborate TOTU				
≥98.0 %	$C_{10}H_{17}BF_4N_4O_3$	M_r 328.08	[136849-72-4]		1 g; 5 g; 25 g
37347	O-[2-Oxo-1(2H)pyridyl]-N,N,N',N'-tetramethyluronium tetrafluoroborate TPTU				
≥99.0 %	$C_{10}H_{16}BF_4N_3O_2$	M_r 297.06	[125700-71-2]		1 g; 5 g; 25 g
85971	Dipyrrolidino(N-succinimidyl)carbenium hexafluorophosphate HSPyU				
≥98.0 %	$C_{13}H_{20}F_6N_3O_3P$	M_r 411.28	[207683-26-9]		1 g; 5 g; 25 g
85972	N,N,N',N'-Tetramethyl-O-(N-succinimidyl)uronium tetrafluoroborate TSTU				
≥98.0 %	$C_9H_{16}BF_4N_3O_3$	M_r 301.05	[105832-38-0]		1 g; 5 g; 25 g
NEW! 47440	Fluoro-N,N,N',N'-tetramethylformamidinium hexafluorophosphate TFFH				
≥99.0 %	$C_5H_{12}F_7N_2P$	M_r 264.13	[164298-23-1]		1 g; 5 g
Sold under agreement with PE Biosystems. For bulk quantities please contact PE Biosystems					
17381	2-Fluoro-1,3-dimethylimidazolidinium hexafluorophosphate DFIH				
~99 %	$C_5H_{10}F_7N_2P$	M_r 262.12	[164298-27-5]		5 g; 25 g
NEW! 17380	Fluoro-N,N,N',N'-bis(tetramethylene)formamidinium hexafluorophosphate BTFFH				
≥99.0 %	$C_9H_{16}F_7N_2P$	M_r 316.21	[164298-25-3]		5 g; 25 g

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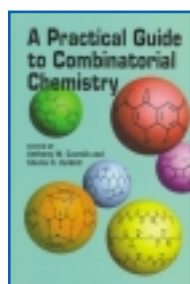


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W.C. Chan and P.D. White, Eds., Oxford University Press, New York, NY, 2000, 376pp. Hardcover.

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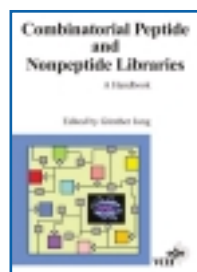


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A.W. Czarnik and S.H. DeWitt, Eds., American Chemical Society, Washington, DC, 1997, 450pp. Hardcover.

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G. Jung, John Wiley & Sons, New York, NY, 1997, 545pp. Hardcover.

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