

Reagents for Peptide Synthesis

Reagents for Peptide Synthesis 304

Reagents for Peptide Synthesis

Code	Compound	Price:Yen	
1037	(Boc)₂O*	25 g	3,200
2~10°C	Di- <i>t</i> -butyl dicarbonate	100 g	9,700
	(M.W.218.25) C ₁₀ H ₁₈ O ₅ [24424-99-5]	500 g	37,600
	Purity: higher than 99%		
	1) L. Moroder, A. Hallet, E. Wunsch, O. Keller, and G. Wersin, <i>Hoppe Seyler's Z. Physiol. Chem.</i> , 357 ,1651 (1976).		
1033	N-Carboethoxy Phthalimide	25 g	2,700
2~10°C	N-(Ethoxycarbonyl)phthalimide	100 g	6,600
	Nefkens' Reagent	500 g	23,800
	(M.W.219.19) C ₁₁ H ₉ NO ₄ [22509-74-6]		
	1) G.H.L. Nefkens, <i>Nature</i> , 185 , 309 (1960).		
1048	6-Cl-HOBT	5 g	2,500
2~10°C	6-Chloro-1-hydroxybenzotriazole	25 g	6,000
	(M.W. 169.57) C ₆ H ₄ N ₃ OCl [26198-19-6]	100 g	20,000
	1) G. Sabatino, B. Mulinacci, M.C. Alcaro, M. Chelli, P. Rovero, and A.M. Papini, <i>Lett. Pept. Sci.</i> , 9 , 119 (2002).		
1001	DCCD	500 g	16,000
2~10°C	Dicyclohexylcarbodiimide		
	(M.W.206.33) C ₁₃ H ₂₂ N ₂ [538-75-0]		
	<i>Crystalline Mass</i>		
	1) J.C. Sheehan and G.P. Hess, <i>J. Am. Chem. Soc.</i> , 77 , 1067 (1955).		
1024	EEDQ	25 g	2,000
2~10°C	N-Ethoxycarbonyl-2-ethoxy-1,2-dihydroquinoline	100 g	6,500
	(M.W. 247.29) C ₁₄ H ₁₇ NO ₃ [16357-59-8]		
	1) B. Belleau and G. Malek, <i>J. Am. Chem. Soc.</i> , 90 , 1651 (1968).		
	2) H. Yajima and H. Kawatani, <i>Chem. Pharm. Bull.</i> , 19 , 1905 (1971).		
1042	Fmoc-OSu	5 g	5,000
-20°C	N-(9-Fluorenylmethoxycarbonyloxy)succinimide	25 g	15,000
	[9-Fluorenylmethyl N-succinimidyl carbonate]	100 g	45,000
	(M.W. 337.33) C ₁₉ H ₁₅ NO ₅ [82911-69-1]		
	1) A. Paquet, <i>Can. J. Chem.</i> , 60 , 976 (1982).		
1043	HATU*	1 g	4,000
-20°C	1-[Bis(dimethylamino)methylene]-1 <i>H</i> -1,2,3-triazolo(4,5- <i>b</i>) pyridinium	5 g	16,000
	3-oxide hexafluorophosphate	25 g	63,000
	(M.W. 235.27 • 144.96) C ₁₀ H ₁₅ N ₆ O • PF ₆ [148893-10-1]		
	<i>Coupling Reagent for Peptide Synthesis</i>		
	1) L. A. Carpino, <i>J. Am. Chem. Soc.</i> , 115 , 4397 (1993).		
	2) I. Abdelmoty, F. Albericio, L.A. Carpio, B.M. Foxman, and S.A. Kates, <i>Lett. Pept. Sci.</i> , 1 , 57 (1994).		
	• Domestic service only; This product is sold under the agreement with Applied Biosystems.		

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* Cannot be mailed outside of Japan

Reagents for Peptide Synthesis (continued)

Code	Compound	Price:Yen	
1046	HBTU	5 g	2,500
2~10°C	1-[Bis(dimethylamino)methylene]-1 <i>H</i> -benzotriazolium 3-oxide hexafluorophosphate (M.W. 234.28 · 144.96) C ₁₁ H ₁₆ N ₅ O · PF ₆ [94790-37-1]	25 g	6,000
		100 g	20,000
1047	HCTU	5 g	2,500
2~10°C	1-[Bis(dimethylamino)methylene]-5-chloro-1 <i>H</i> -benzotriazolium 3-oxide hexafluorophosphate (M.W. 268.72 · 144.96) C ₁₁ H ₁₅ N ₅ OCl · PF ₆ [330645-87-9]	25 g	6,000
		100 g	20,000
	1) G. Sabatino, B. Mulinacci, M.C. Alcaro, M. Chelli, P. Rovero, and A.M. Papini, <i>Lett. Pept. Sci.</i> , 9 , 119 (2002).		
1022	HOBt	25 g	3,200
RT	1-Hydroxybenzotriazole (M.W. 135.12) C ₆ H ₅ N ₃ O [2592-95-2]	100 g	8,400
	1) W. König and R. Geiger, <i>Chem. Ber.</i> , 103 , 788 (1970).		
1011	HOSu	25 g	3,400
RT	<i>N</i> -Hydroxysuccinimide (M.W. 115.09) C ₄ H ₅ NO ₃ [6066-82-6]	100 g	9,200
	1) G.W. Anderson, J.E. Zimmerman, and F.M. Callahan, <i>J. Am. Chem. Soc.</i> , 86 , 1839 (1964).		
1020	WSCD*	5 g	4,500
-20°C	(Water-soluble carbodiimide)	25 g	15,000
	[EDC]	100 g	55,000
	1-Ethyl-3-(3-dimethylaminopropyl)carbodiimide (M.W. 155.24) C ₈ H ₁₇ N ₃ [1892-57-5]		
	1) J.C. Sheehan, P.A. Cruickshank, and G.L. Boshrt, <i>J. Org. Chem.</i> , 26 , 2525 (1961).		
1030	WSCD · HCl	5 g	4,000
2~10°C	(Water-soluble carbodiimide hydrochloride)	25 g	12,000
	[EDC · HCl]	100 g	40,000
	1-Ethyl-3-(3-dimethylaminopropyl)carbodiimide monohydrochloride (M.W. 155.24 · 36.46) C ₈ H ₁₇ N ₃ · HCl [25952-53-8]		
	1) J.C. Sheehan, P.A. Cruickshank, and G.L. Boshrt, <i>J. Org. Chem.</i> , 26 , 2525 (1961).		
1045	Z-OSu	25 g	3,000
2~10°C	<i>N</i> -(Benzyloxycarbonyloxy)succinimide (M.W. 249.22) C ₁₂ H ₁₁ NO ₅ [13139-17-8]	100 g	9,000
	1) M. Frankel, D. Ladkany, C. Gilon, and Y. Wolman, <i>Tetrahedron Lett.</i> , 39 , 4765 (1966).		

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