Products of Peptides International, Inc.

Manufacturer:

PEPTIDES INTERNATIONAL, INC.

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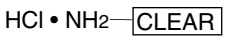
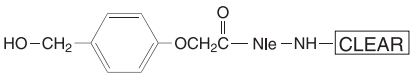
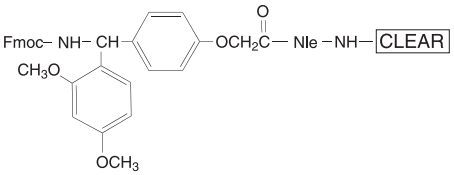
Products of Peptides International, Inc.

Code	Compound		Price:Yen
RCB-1210-PI 2～10℃	**CLEAR-Base Resin (HCl)** *100-200 Mesh* 	5 g 25 g 100 g	15,000 55,000 199,000
RCX-1213-PI 2～10℃	**CLEAR-Acid Resin** *100-200 Mesh* Hydroxymethylphenoxyacetyl-norleucyl-CLEAR Resin 	5 g 25 g	27,000 125,000
RCY-1250-PI 2～10℃	**CLEAR-Amide Resin** *100-200 Mesh* Rink-Amide-CLEAR Resin 4-(2,4-Dimethoxyphenyl-Fmoc-aminomethyl)phenoxyacetyl-norleucyl-CLEAR Resin 	5 g 25 g	39,000 135,000
CFA-1220-PI 2～10℃	**Fmoc-Ala-CLEAR-Acid Resin**	1 g 5 g	9,000 35,000
CFA-12015-PI 2～10℃	**Fmoc-Ala-CLEAR-Amide Resin**	1 g 5 g	9,000 35,000
CFX-1221-PI 2～10℃	**Fmoc-β-Ala-CLEAR-Acid Resin**	1 g 5 g	9,000 35,000
CFX-12016-PI 2～10℃	**Fmoc-β-Ala-CLEAR-Amide Resin**	1 g 5 g	inquiry inquiry
CFR-1222-PI 2～10℃	**Fmoc-Arg(Pbf)-CLEAR-Acid Resin**	1 g 5 g	inquiry inquiry
CFR-12017-PI 2～10℃	**Fmoc-Arg(Pbf)-CLEAR-Amide Resin**	1 g 5 g	17,000 49,000

Products of Peptides International, Inc. (continued)

Code	Compound		Price:Yen
CFN-1223-PI 2～10℃	**Fmoc-Asn(Trt)-CLEAR-Acid Resin**	1 g 5 g	12,000 43,000
CFN-12018-PI 2～10℃	**Fmoc-Asn(Trt)-CLEAR-Amide Resin**	1 g 5 g	12,000 43,000
CFD-1224-PI 2～10℃	**Fmoc-Asp(OBu^t)-CLEAR-Acid Resin**	1 g 5 g	12,000 43,000
CFD-12019-PI 2～10℃	**Fmoc-Asp(OBu^t)-CLEAR-Amide Resin**	1 g 5 g	12,000 43,000
CFC-1225-PI 2～10℃	**Fmoc-Cys(Bu^t)-CLEAR-Acid Resin**	1 g 5 g	12,000 43,000
CFC-1226-PI 2～10℃	**Fmoc-Cys(Acm)-CLEAR-Acid Resin**	1 g 5 g	17,000 55,000
CFC-1227-PI 2～10℃	**Fmoc-Cys(Trt)-CLEAR-Acid Resin**	1 g 5 g	12,000 43,000
CFC-12020-PI 2～10℃	**Fmoc-Cys(Trt)-CLEAR-Amide Resin**	1 g 5 g	12,000 43,000
CFC-1228-PI 2～10℃	**Fmoc-Cys(Xan)-CLEAR-Acid Resin**	1 g 5 g	17,000 55,000
CFQ-1231-PI 2～10℃	**Fmoc-Gln(Trt)-CLEAR-Acid Resin**	1 g 5 g	12,000 43,000
CFQ-12024-PI 2～10℃	**Fmoc-Gln(Trt)-CLEAR-Amide Resin**	1 g 5 g	inquiry inquiry
CFE-1229-PI 2～10℃	**Fmoc-Glu(OBu^t)-CLEAR-Acid Resin**	1 g 5 g	12,000 43,000
CFE-12025-PI 2～10℃	**Fmoc-Glu(OBu^t)-CLEAR-Amide Resin**	1 g 5 g	inquiry inquiry
CFG-1233-PI 2～10℃	**Fmoc-Gly-CLEAR-Acid Resin**	1 g 5 g	9,000 35,000
CFG-12026-PI 2～10℃	**Fmoc-Gly-CLEAR-Amide Resin**	1 g 5 g	9,000 35,000
CFH-1234-PI 2～10℃	**Fmoc-His(Trt)-CLEAR-Acid Resin**	1 g 5 g	12,000 43,000
CFH-12027-PI 2～10℃	**Fmoc-His(Trt)-CLEAR-Amide Resin**	1 g 5 g	inquiry inquiry

CLEAR products are protected under US Patents 5,910,554 and 5,656,707 granted to the Regents of the University of Minnesota.

Products of Peptides International, Inc. (continued)

Code	Compound		Price:Yen
CFI-1236-PI 2～10℃	**Fmoc-Ile-CLEAR-Acid Resin**	1 g 5 g	9,000 35,000
CFI-12028-PI 2～10℃	**Fmoc-Ile-CLEAR-Amide Resin**	1 g 5 g	9,000 35,000
CFL-1237-PI 2～10℃	**Fmoc-Leu-CLEAR-Acid Resin**	1 g 5 g	9,000 35,000
CFL-12029-PI 2～10℃	**Fmoc-Leu-CLEAR-Amide Resin**	1 g 5 g	inquiry inquiry
CFK-1238-PI 2～10℃	**Fmoc-Lys(Boc)-CLEAR-Acid Resin**	1 g 5 g	12,000 43,000
CFK-12030-PI 2～10℃	**Fmoc-Lys(Boc)-CLEAR-Amide Resin**	1 g 5 g	12,000 43,000
CFM-1240-PI 2～10℃	**Fmoc-Met-CLEAR-Acid Resin**	1 g 5 g	9,000 35,000
CFM-12032-PI 2～10℃	**Fmoc-Met-CLEAR-Amide Resin**	1 g 5 g	inquiry inquiry
CFF-1241-PI 2～10℃	**Fmoc-Phe-CLEAR-Acid Resin**	1 g 5 g	9,000 35,000
CFF-12033-PI 2～10℃	**Fmoc-Phe-CLEAR-Amide Resin**	1 g 5 g	inquiry inquiry
CFP-1242-PI 2～10℃	**Fmoc-Pro-CLEAR-Acid Resin**	1 g 5 g	9,000 35,000
CFP-12034-PI 2～10℃	**Fmoc-Pro-CLEAR-Amide Resin**	1 g 5 g	9,000 35,000
CFS-1243-PI 2～10℃	**Fmoc-Ser(Bu^t)-CLEAR-Acid Resin**	1 g 5 g	inquiry inquiry
CFS-12035-PI 2～10℃	**Fmoc-Ser(Bu^t)-CLEAR-Amide Resin**	1 g 5 g	inquiry inquiry
CFT-1245-PI 2～10℃	**Fmoc-Thr(Bu^t)-CLEAR-Acid Resin**	1 g 5 g	12,000 43,000
CFT-12036-PI 2～10℃	**Fmoc-Thr(Bu^t)-CLEAR-Amide Resin**	1 g 5 g	12,000 43,000
CFW-1246-PI 2～10℃	**Fmoc-Trp-CLEAR-Acid Resin**	1 g 5 g	inquiry inquiry
CFW-12037-PI 2～10℃	**Fmoc-Trp-CLEAR-Amide Resin**	1 g 5 g	9,000 35,000

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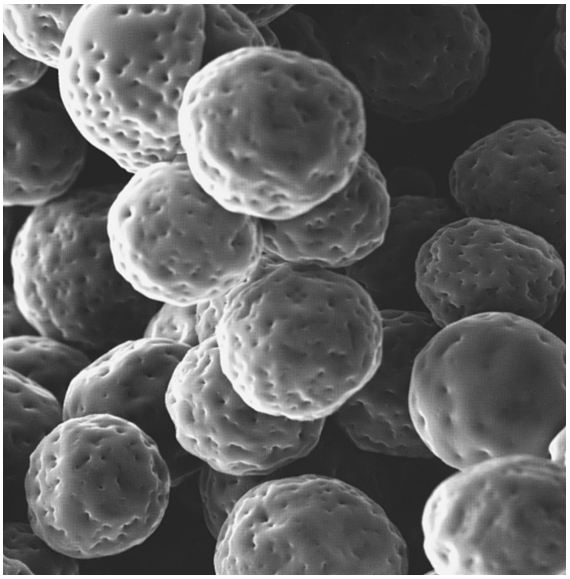
Products of Peptides International, Inc. (continued)

Code	Compound		Price:Yen
CFW-1247-PI	**Fmoc-Trp(Boc)-CLEAR-Acid Resin**	1 g	17,000
2～10℃		5 g	55,000
CFW-12038-PI	**Fmoc-Trp(Boc)-CLEAR-Amide Resin**	1 g	12,000
2～10℃		5 g	43,000
CFY-1248-PI	**Fmoc-Tyr(Bu^t)-CLEAR-Acid Resin**	1 g	12,000
2～10℃		5 g	43,000
CFY-12039-PI	**Fmoc-Tyr(Bu^t)-CLEAR-Amide Resin**	1 g	12,000
2～10℃		5 g	43,000
CFV-1249-PI	**Fmoc-Val-CLEAR-Acid Resin**	1 g	9,000
2～10℃		5 g	35,000
CFV-12040-PI	**Fmoc-Val-CLEAR-Amide Resin**	1 g	inquiry
2～10℃		5 g	inquiry

CLEAR products are protected under US Patents 5,910,554 and 5,656,707 granted to the Regents of the University of Minnesota.

CLEAR RESINS



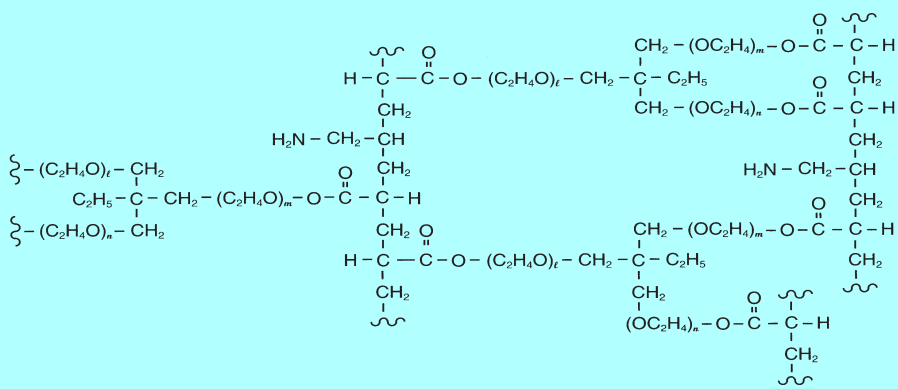
CLEAR resins (Cross-Linked Ethoxylate Acrylate Resins) were developed by George Barany and Maria Kempe at the University of Minnesota.[1,2] These products retain the highly desirable solvation properties of polyethylene glycol (PEG) and PEG-linked products but can be handled with infinitely greater convenience. Unlike conventional liquid phase synthesis, developed by Bayer and Mutter in the 1970s[3] and recently popularized by Janda in combinatorial synthesis[4], CLEAR resins are highly cross-linked. They are produced in a bead form employing a large-scale suspension polymerization process developed at Peptides International.[5] The CLEAR particles swell in a wide range of solvents including water, methylene chloride, or DMF. They are also compatible with relatively non-polar solvents such as THF or dioxane. Synthesis can be performed on CLEAR in automated or manual synthesizers. Many other uses are possible with this exciting new product: In organic synthesis. In affinity chromatography. In enzyme immobilization. In trace analysis. In remote sensor applications. CLEAR may be the resin to consider in your research.

Swelling properties of CLEAR - Base Resin

Solvent	Bed volume (ml) of 1 g of resin
CH_2Cl_2	7.0
DMF	6.5
THF	7.0
MeOH	6.0
H_2O	5.5

References

1. M. Kempe, G. Barany, "CLEAR: A Novel Family of Highly Cross-Linked Polymeric Supports for Solid Phase Peptide Synthesis," *J. Am. Chem. Soc.*, **118**, 7083 (1996).
2. M. Kempe, G. Barany, "Novel Highly Cross-Linked Supports for Solid Phase Applications," in Solid Phase Synthesis (Fourth International Symposium, Edinburgh, Scotland), R. Epton, Ed., Mayflower (London) 1996 p.191.
3. E. Bayer, M. Mutter, *Natute* (London), **237**, 512 (1972).
4. K.D. Janda, "Tagged Versus Untagged Libraries: Methods for Degeneration and Screening of Combinatorial Chemical Libraries," *Proc. Natl. Acad. Sci. U.S.A.*, **91**, 10779 (1994).
5. K. Darlak, I. Romanovska, A. Spatola, G. Barany and M. Kempe, "A New Solid Support for Peptide and Organic Synthesis," (Fifteenth American Peptide Symposium, Nashville, Tennessee U.S.A.).



Products of Peptides International, Inc. (continued)

Code	Compound		Price:Yen
RAM-1440-PI RT	**Aminomethylated Polystyrene Resin • HCl** *Divinylbenzene 1%, 100-200 mesh* *NH_2: 0.3-0.8 meq / g*	5 g 25 g	7,800 31,000
RAM-1049-PI RT	**Aminomethylated Polystyrene Resin • HCl** *Divinylbenzene 1%, 200-400 mesh* *NH_2: 0.3-0.8 meq / g*	5 g 25 g	9,000 36,000
RAM-1051-PI RT	**Aminomethylated Polystyrene Resin • HCl** *Divinylbenzene 1%, 100-200 mesh* *NH_2: 0.1-0.3 meq / g*	5 g 25 g	22,600 86,600
RBH-1046-PI RT	**Benzhydrylamine Resin • HCl (BHA)** *Divinylbenzene 1%, 100-200 mesh* *NH_2: 0.3-1.0 meq / g*	5 g 25 g	11,000 44,000
RBH-1048-PI RT	**Benzhydrylamine Resin • HCl (BHA)** *Divinylbenzene 1%, 200-400 mesh* *NH_2: 0.3-1.0 meq / g*	5 g 25 g	11,000 44,000
RCM-1034-PI RT	**Chloromethylated Polystyrene Resin** *Divinylbenzene 1%, 100-200 mesh* *Cl: 0.3-1.5 meq / g*	5 g 25 g	3,800 13,000
RCM-1017-PI RT	**Chloromethylated Polystyrene Resin** *Divinylbenzene 2%, 200-400 mesh* *Cl: 0.3-1.0 meq / g*	5 g 25 g	3,800 13,000
RCM-1052-PI RT	**Chloromethylated Polystyrene Resin** *p-substituted, Divinylbenzene 1%, 100-200 mesh* *Cl: 0.7-1.1 meq / g*	5 g 25 g	5,000 15,800
RCM-1054-PI RT	**Chloromethylated Polystyrene Resin** *p-substituted, Divinylbenzene 1%, 200-400 mesh* *Cl: 0.7-1.1 meq / g*	5 g 25 g	5,000 15,800
RHM-1079-PI 4℃	**HMBA-MBHA Resin** Hydroxymethylbenzoyl-MBHA Resin *Divinylbenzene 1%, 200-400 mesh*	1 g 5 g	9,000 35,000
RHM-1077-PI 4℃	**HMPB-MBHA Resin** 4-(4-hydroxymethyl-3-methoxyphenoxy)-butyryl-MBHA Resin *Divinylbenzene 1%, 200-400 mesh*	1 g 5 g	9,000 35,000
RFR-1069-PI RT	**Hydroxymethyl Polystyrene Resin** *Divinylbenzene 1%, 100-200 mesh*	5 g 25 g	10,000 40,000

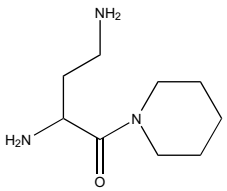
Products of Peptides International, Inc. (continued)

Code	Compound		Price:Yen
RFR-1072-PI RT	**Hydroxymethyl Polystyrene Resin** *Divinylbenzene 2%, 200-400 mesh*	5 g 25 g	10,000 40,000
RMB-1045-PI RT	***p*-Methyl-Benzhydrylamine Resin • HCl (MBHA)** *Divinylbenzene 1%, 100-200 mesh* *NH_2: 0.3-1.0 meq / g*	5 g 25 g	9,800 37,800
RMB-2100-PI RT	***p*-Methyl-Benzhydrylamine Resin • HCl (MBHA)** *Divinylbenzene 1%, 200-400 mesh* *NH_2: 0.3-1.5 meq / g*	5 g 25 g	9,800 37,800
RHM-1073-PI 4℃	**Rink-Amide-AM Resin** Nle internal reference 4-(2',4'-Dimethoxyphenyl-Fmoc-Aminomethyl) Phenoxyacetylnorleucyl Aminomethyl Resin *Divinylbenzene 1%, 200-400 mesh* *NH_2: 0.3-0.6 meq / g*	5 g 25 g	33,800 109,800
RFR-1063-PI 4℃	**Rink-Amide-MBHA Resin** 4-(2',4'-Dimethoxyphenyl-Fmoc-Aminomethyl) Phenoxyacetyl-MBHA Resin *Divinylbenzene 1%, 100-200 mesh* *NH_2: 0.3-0.6 meq / g*	5 g 25 g	33,800 109,800
RFR-1067-PI 4℃	**Rink-Amide-MBHA Resin** *Divinylbenzene 1%, 200-400 mesh* *NH_2: 0.3-0.6 meq / g*	5 g 25 g	33,800 109,800
RWN-1399-PI RT	**Wang Resin** *p*-Alkoxybenzyl Alcohol Resin *Divinylbenzene 1%, 100-200 mesh*	5 g 25 g	9,800 36,000
RWN-1398-PI RT	**Wang Resin** *p*-Alkoxybenzyl Alcohol Resin *Divinylbenzene 1%, 200-400 mesh*	5 g 25 g	9,000 36,000
RCT-1056-PI -20℃	**2-Chlorotrityl Chloride Resin** *Divinylbenzene 1%, 100-200 mesh*	5 g 25 g	13,000 53,000
RCT-1083-PI -20℃	**2-Chlorotrityl Chloride Resin** *Divinylbenzene 1%, 200-400 mesh*	5 g 25 g	13,000 53,000

****** Urotensin II Agonist and Antagonist ******

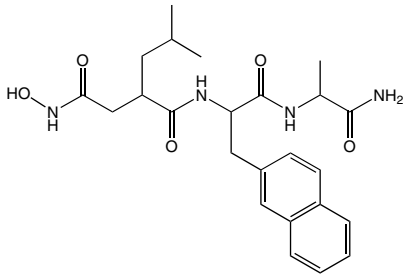
Code	Compound		Price:Yen
PUT-3639-PI -20℃	**Urantide™** **[Pen^5, D-Trp^7, Orn^8]-Urotensin II (Human, 4-11)** Asp-Pen-Phe-D-Trp-Orn-Tyr-Cys-Val (Disulfide bond between Pen^2-Cys^7) (Pen: Penicillamine) (M.W. 1075.3) $C_{51}H_{66}N_{10}O_{12}S_2$ *Potent Urotensin II Receptor Antagonist* 1) R. Patacchini, P. Santicioli, S. Giuliani, P. Grieco, E. Novellino, P. Rovero, and C.A. Maggi, *Br. J. Pharmacol.*, **140**, 1155 (2003). (*Original; Urantide*) • This product is sold under exclusive licence granted to Peptides International, Inc.	1 mg	25,000
PUT-3640-PI -20℃	**Asp-Pen-Phe-Trp-Lys-Tyr-Cys-Val** **[Pen^5]-Urotensin II (Human, 4-11)** Asp-Pen-Phe-Trp-Lys-Tyr-Cys-Val (Disulfide bond between Pen^2-Cys^7) (Pen: Penicillamine) (M.W. 1089.3) $C_{52}H_{68}N_{10}O_{12}S_2$ *Potent Urotensin II Receptor Agonist* 1) P. Grieco, A. Carotenuto, P. Campiglia, E. Zampelli, R. Patacchini, C.A. Maggi, E. Novellino, and P. Rovero, *J. Med. Chem.*, **45**, 4391 (2002). (*Original*) • This product is sold under exclusive licence granted to Peptides International, Inc.	1 mg	25,000

****** DPP II Inhibitor ******

Code	Compound		Price:Yen
IDP-3655-PI -20℃	**Dab-Pip** **A_2bu-Pip** L-2,4-Diaminobutyric acid piperidide (M.W. 185.27) $C_9H_{19}N_3O$  *Selective Inhibitor for Dipeptidyl Peptidase II (DPP II)* 1) K. Senten, P. Van der Veken, G. Bal, I. De Meester, A.-M. Lambier, S. Sharpé, B. Bauvois, A. Haemers, and K. Augustyns, *Bioorg. Med. Chem. Lett.*, **12**, 2825 (2002).	5 mg	7,000

****** MMP Inhibitors ******

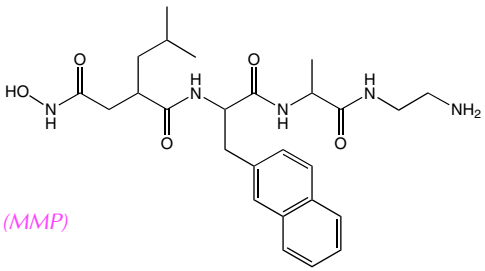
Code	Compound			Price:Yen
INH-3850-PI -20℃	**TAPI-0** **HONHCOCH$_2$CH(CH$_2$-CH(CH$_3$)$_2$)CO-Nal-Ala-NH$_2$** *N*-(*R*)-(2-(Hydroxyaminocarbonyl)methyl)-4-methylpentanoyl-L-3-(2'-naphthyl)alanyl-L-alanine amide (M.W. 456.53) $C_{24}H_{32}N_4O_5$	Vial	1 mg	25,000



Inhibitor for Matrix Metallo Protease (MMP)

1) A.F. Spatola, K. Darlak, S. Pegoraro, K. Nijhawan, M. Anzolin, L. Lankiewicz, and R.D. Gray, *In*, Peptides: Chemistry and Biology (Proceedings of the 12th American Peptide Symposium) (J.A. Smith and J.E. Rivier eds.), ESCOM, Leiden, 1992, p.820.

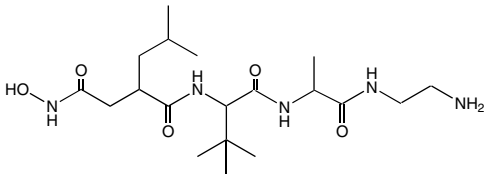
Code	Compound			Price:Yen
INH-3855-PI -20℃	**TAPI-1** **HONHCOCH$_2$CH(CH$_2$-CH(CH$_3$)$_2$)CO-Nal-Ala-NHCH$_2$CH$_2$NH$_2$** *N*-(*R*)-(2-(Hydroxyaminocarbonyl)methyl)-4-methylpentanoyl-L-3-(2'-naphthyl)alanyl-L-alanine 2-aminoethyl amide (M.W. 499.60) $C_{26}H_{37}N_5O_5$	Vial	1 mg	25,000



Inhibitor for Matrix Metallo Protease (MMP)

1) K.M. Mohler, P.R. Sleath, J.N. Fitzner, D.P. Cerretti, M. Alderson, S.S. Kerwar, D.S. Torrance, C. Otten-Evans, T. Greenstreet, K. Weerawarna, S.R. Kronheim, M. Petersen, M. Gerhart, C.J. Kozlosky, C.J. March, and R.A. Black, *Nature*, **370**, 218 (1994).

Code	Compound			Price:Yen
INH-3852-PI -20℃	**TAPI-2** **HONHCOCH$_2$CH(CH$_2$-CH(CH$_3$)$_2$)CO-*t*-Leu-Ala-NHCH$_2$CH$_2$NH$_2$** *N*-(*R*)-(2-(Hydroxyaminocarbonyl)methyl)-4-methylpentanoyl-L-*t*-butyl-glycyl-L-alanine 2-aminoethyl amide (M.W. 415.53) $C_{19}H_{37}N_5O_5$	Vial	1 mg	25,000



Inhibitor for Metalloproteases

1) J. Arribas, L. Coodly, P. Vollmer, T.K. Kishimoto, S. Rose-John, and J. Massagué, *J. Biol. Chem.*, **271**, 11376 (1996).
2) N.M. Hooper, E.H. Karran, and A.J. Turner, *Biochem. J.*, **321** 265 (1997).

****** Fluorescence-Quenching Substrate ******

Code	Compound			Price:Yen
SDP-3818-PI -20℃	**Abz-Leu-Ala-Gln-Ala-Val-Arg-Ser-Ser-Ser-Arg-A_2pr(Dnp)-NH_2** 2-Aminobenzoyl-L-leucyl-L-alanyl-L-glutaminyl-L-alanyl-L-valyl-L-arginyl-L-seryl-L-seryl-L-seryl-L-arginyl-N^{β}-(2,4-dinitrophenyl)-L-2,3-diaminopropionamide (M.W. 1444.5) $C_{59}H_{93}N_{23}O_{20}$ *Fluorescence-Quenching Substrate for ADAM17/ Tumor Necrosis Factor-α Converting Enzyme* 1) G. Jin, X. Huang, R. Black, M. Wolfson, C. Rauch, H. McGregor, G. Ellestad, and R. Cowling, *Anal. Biochem.*, **302**, 269 (2002).	Vial	1 mg	15,000

****** Amino Acid Derivatives (mini-PEG™) ******

Code	Compound		Price:Yen
BXX-5519-PI 2～10℃	**Boc-8-Amino-3,6-Dioxaoctanoic Acid • DCHA** **8-(Boc-amino)-3,6-dioxaoctanoic acid • DCHA** **Boc-mini-PEG™ / Boc-AEEA** 8-*t*-Butyloxycarbonylamino-3,6-dioxaoctanoic acid dicyclohexylamine (M.W. 263.29 • 181.32) $C_{11}H_{21}NO_6 \cdot C_{12}H_{23}N$ *Solubilizing Bioconjugate / Linker*	1 g	25,000
BXX-5523-PI 2～10℃	**Boc-11-Amino-3,6,9-Trioxaundecanoic Acid • DCHA** **11-(Boc-amino)-3,6,9-trioxaundecanoic acid • DCHA** **Boc-mini-PEG-3™ / Boc-AEEEA** 11-*t*-Butyloxycarbonylamino-3,6,9-trioxaundecanoic acid dicyclohexylamine (M.W. 307.34 • 181.32) $C_{13}H_{25}NO_7 \cdot C_{12}H_{23}N$ *Solubilizing Bioconjugate / Linker*	1 g	30,000
FXX-5521-PI 2～10℃	**Fmoc-8-Amino-3,6-Dioxaoctanoic Acid** **8-(Fmoc-amino)-3,6-dioxaoctanoic acid** **Fmoc-mini-PEG™ / Fmoc-AEEA** 8-Fluorenylmethoxycarbonylamino-3,6-dioxaoctanoic acid (M.W. 385.41) $C_{21}H_{23}NO_6$ *Solubilizing Bioconjugate / Linker* 1) A.M.P. Koskinen, T. Valo, S. Vihavainen, and J.M.L. Hakala, *Bioorg. Med. Chem. Lett.*, **5**, 573 (1995). 2) J.W. Trauger, R.M. Kohli, and C.T. Walsh, *Biochemistry*, **40**, 7092 (2001).	1 g	26,000
FXX-5524-PI -20℃	**Fmoc-11-Amino-3,6,9-Trioxaundecanoic Acid (Syrup)** **11-(Fmoc-amino)-3,6,9-trioxaundecanoic acid** **Fmoc-mini-PEG-3™ / Fmoc-AEEEA** 11-Fluorenylmethoxycarbonylamino-3,6,9-trioxaundecanoic acid (M.W. 429.47) $C_{23}H_{27}NO_7$ *Solubilizing Bioconjugate / Linker*	1 g	35,000