

PI PEPTIDE

- Biologically Active Peptides
- Carbohydrates
- Enzyme Inhibitors
- Enzyme Substrates
- Peptide Tools

PEPTIDE INSTITUTE, INC.

Supplemental Product List

2021

Inhibitor and Fluorogenic Substrates for SARS-CoV-2 Proteases

Code	Compound	Vial	mg	Price:Yen
3253-v New -20°C	Ac-Abu-D-Tyr-Leu-Gln-VS 4-(Acetyl-L- α -aminobutyryl-D-tyrosyl-L-leucyl)amino-6-(methylsulfonyl)hex-5E-enamide (M.W. 609.73) C ₂₈ H ₄₃ N ₅ O ₈ S <i>Inhibitor for SARS-CoV-2 Main Protease (M^{pro}, a.k.a. 3CL^{pro})</i>	Vial	1 mg	25,000
1) W. Rut, K. Groborz, L. Zhang, X. Sun, M. Zmudzinski, B. Pawlik, X. Wang, D. Jochmans, J. Neyts, W. Młynarski, R. Hilgenfeld, and M. Drag, <i>Nat. Chem. Biol.</i> , in press. (Original)				
3249-v New -20°C	DabcyL-Lys-Thr-Ser-Ala-Val-Leu-Gln-Ser-Gly-Phe-Arg-Lys-Met-Glu(Edans)-NH₂ DabcyL-Lys-Thr-Ser-Ala-Val-Leu-Gln-Ser-Gly-Phe-Arg-Lys-Met-Glu(Edans)-NH ₂ (Trifluoroacetate Form) (M.W. 2080.4) C ₉₅ H ₁₄₂ N ₂₆ O ₂₃ S ₂ <i>Fluorogenic Substrate for SARS-CoV/SARS-CoV-2 Main Protease (M^{pro})</i>	Vial	1 mg	50,000
1) C.-J. Kuo, Y.-H. Chi, J.T.-A. Hsu, and P.-H. Liang, <i>Biochem. Biophys. Res. Commun.</i> , 318 , 862 (2004). (Substrate for SARS-CoV Main Protease) 2) L. Zhang, D. Lin, X. Sun, U. Curth, C. Drosten, L. Sauerhering, S. Becker, K. Rox, and R. Hilgenfeld, <i>Science</i> , 368 , 409 (2020). (Substrate for SARS-CoV-2 Main Protease)				
3250-v New -20°C	Ac-Abu-Tle-Leu-Gln-MCA Acetyl-L- α -aminobutyryl-L-tert-leucyl-L-leucyl-L-glutamine α -(4-methylcoumaryl-7-amide) (M.W. 656.77) C ₃₃ H ₄₈ N ₆ O ₈ <i>Fluorogenic Substrate for SARS-CoV/SARS-CoV-2 M^{pro} (a.k.a. 3CL^{pro})</i>	Vial	1 mg	10,000
1) W. Rut, K. Groborz, L. Zhang, X. Sun, M. Zmudzinski, B. Pawlik, X. Wang, D. Jochmans, J. Neyts, W. Młynarski, R. Hilgenfeld, and M. Drag, <i>Nat. Chem. Biol.</i> , in press. (Original: ACC Version)				
3251-v New -20°C	Ac-Thz-Tle-Leu-Gln-MCA Acetyl-L-thiopropyl-L-tert-leucyl-L-leucyl-L-glutamine α -(4-methylcoumaryl-7-amide) (M.W. 686.82) C ₃₃ H ₄₆ N ₆ O ₈ S <i>Fluorogenic Substrate for SARS-CoV/SARS-CoV-2 M^{pro} (a.k.a. 3CL^{pro})</i>	Vial	1 mg	10,000
1) W. Rut, K. Groborz, L. Zhang, X. Sun, M. Zmudzinski, B. Pawlik, X. Wang, D. Jochmans, J. Neyts, W. Młynarski, R. Hilgenfeld, and M. Drag, <i>Nat. Chem. Biol.</i> , in press. (Original: ACC Version)				
3252-v New -20°C	Z-Arg-Leu-Arg-Gly-Gly-MCA Benzoyloxycarbonyl-L-arginyl-L-leucyl-L-arginylglycylglycine 4-methylcoumaryl-7-amide (M.W. 848.95) C ₄₀ H ₅₆ N ₁₂ O ₉ <i>Fluorogenic Substrate for Isopeptidase T and Coronavirus (CoV) PL^{pro}</i>	Vial	1 mg	10,000
1) R.L. Stein, Z.J. Chen, and F. Melandri, <i>Biochemistry</i> , 34 , 12616 (1995). (Original; Substrate for Isopeptidase T) 2) Y.M. Baez-Santos, A.M. Mielech, X. Deng, S. Baker, and A.D. Mesecar, <i>J. Virol.</i> , 88 , 12511 (2014). (Substrate for CoV PL ^{pro}) 3) E. Smith, M.E. Davis-Gardner, R.D. Garcia-Ordóñez, T.-T. Nguyen, M. Hull, E. Chen, P. Baillargeon, L. Scampavia, T. Strutzenberg, P. Griffin, M. Farzan, and T.P. Spicer, <i>SLASDiscov.</i> , (2020). (Substrate for SARS-CoV-2 PL ^{pro} Enzymatic Assay) 4) A.K. Ghosh, M. Brindisi, D. Shahabi, M.E. Chapman, and A.D. Mesecar, <i>ChemMedChem</i> , 15 , 907 (2020). (Review)				

APP and A β -Related Peptides

Code	Compound			Price:Yen
4518-v New -20°C	APP669-711 Val-Lys-Met-Asp-Ala-Glu-Phe-Arg-His-Asp-Ser-Gly-Tyr-Glu-Val-His-His-Gln-Lys-Leu-Val-Phe-Phe-Ala-Glu-Asp-Val-Gly-Ser-Asn-Lys-Gly-Ala-Ile-Ile-Gly-Leu-Met-Val-Gly-Gly-Val-Val (Trifluoroacetate Form) (M.W. 4688.3) C ₂₁₀ H ₃₂₅ N ₅₇ O ₆₁ S ₂	Vial	0.5 mg	30,000
	<i>A Factor of Plasma Biomarker for Cerebral Amyloid</i> 1) N. Kaneko, R. Yamamoto, T. Sato, and K. Tanaka, <i>Proc. Jpn. Acad. B</i> , 90 , 104 (2014). (<i>Identification in Plasma</i>) 2) N. Kaneko, A. Nakamura, Y. Washimi, T. Kato, T. Sakurai, Y. Arahata, M. Bundo, A. Takeda, S. Niida, K. Ito, K. Toba, K. Tanaka, and K. Yanagisawa, <i>Proc. Jpn. Acad. B</i> , 90 , 353 (2014). (<i>Correlation between APP669-711/Aβ1-42 in Plasma and Cerebral Amyloid Deposition</i>) 3) A. Nakamura, N. Kaneko, V.L. Villemagne, T. Kato, J. Doecke, V. Dore, C. Fowler, Q.X. Li, R. Martins, C. Rowe, T. Tomita, K. Matsuzaki, K. Ishii, K. Ishii, Y. Arahata, S. Iwamoto, K. Ito, K. Tanaka, C.L. Masters, and K. Yanagisawa, <i>Nature(London)</i> , 554 , 249 (2018). (<i>APP669-711/Aβ1-42 in Plasma as a Biomarker for Alzheimer's Disease</i>)			
3423-s New -20°C	6-TAMRA-Amyloid β-Protein (Human, 1-40) 6-TAMRA-Aβ1-40 6-TAMRA-Asp-Ala-Glu-Phe-Arg-His-Asp-Ser-Gly-Tyr-Glu-Val-His-His-Gln-Lys-Leu-Val-Phe-Phe-Ala-Glu-Asp-Val-Gly-Ser-Asn-Lys-Gly-Ala-Ile-Ile-Gly-Leu-Met-Val-Gly-Gly-Val-Val 6-TAMRA:6-Carboxytetramethylrhodamine (Trifluoroacetate Form) (M.W. 4742.2) C ₂₁₉ H ₃₁₅ N ₅₅ O ₆₂ S ₁	Vial	0.1 mg	30,000
4513-s New -20°C	Amyloid β-Protein (Human, 1-40) (Scrambled) Scrambled β-Amyloid (1-40) Ala-Glu-Gly-Asp-Ser-His-Val-Leu-Lys-Glu-Gly-Ala-Tyr-Met-Glu-Ile-Phe-Asp-Val-Gln-Gly-His-Val-Phe-Gly-Gly-Lys-Ile-Phe-Arg-Val-Val-Asp-Leu-Gly-Ser-His-Asn-Val-Ala (Trifluoroacetate Form) (M.W. 4329.8) C ₁₉₄ H ₂₉₅ N ₅₃ O ₅₈ S	Vial	0.1 mg	9,000
	<i>Control Peptide for Amyloid β-Protein (Human, 1-40)</i>			
4514-s New -20°C	Amyloid β-Protein (Human, 1-42) (Scrambled) Scrambled β-Amyloid (1-42) Ala-Ile-Ala-Glu-Gly-Asp-Ser-His-Val-Leu-Lys-Glu-Gly-Ala-Tyr-Met-Glu-Ile-Phe-Asp-Val-Gln-Gly-His-Val-Phe-Gly-Gly-Lys-Ile-Phe-Arg-Val-Val-Asp-Leu-Gly-Ser-His-Asn-Val-Ala (Trifluoroacetate Form) (M.W. 4514.0) C ₂₀₃ H ₃₁₁ N ₅₅ O ₆₀ S	Vial	0.1 mg	18,000
	<i>Control Peptide for Amyloid β-Protein (Human, 1-42)</i>			

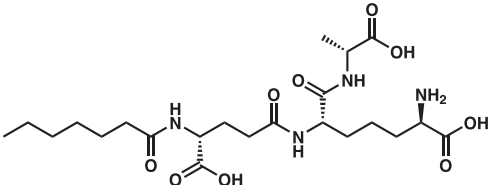
Biologically Active Peptides

Code	Compound			Price:Yen
4515-v	AIP-I Autoinducing Peptide-I, AIP1, Agr D1 thiolactone Tyr-Ser-Thr-Cys-Asp-Phe-Ile-Met (Thioester bond between Cys ⁴ -Met ⁶) (Trifluoroacetate Form) (M.W. 961.11) C ₄₃ H ₆₀ N ₈ O ₁₃ S ₂	Vial	0.5 mg	20,000
	New -20°C			
	<i>A Peptide Modulator of Quorum Sensing in Staphylococcus spp.</i> 1) G. Y. Ji, R. C. Beavis, and R. P. Novick, <i>Proc. Natl. Acad. Sci. U. S. A.</i> , 92 , 12055 (1995). (<i>Original/Bioactivity</i>) 2) G. Ji, R. Beavis, and R. P. Novick, <i>Science</i> , 276 , 2027 (1997). (<i>Bioactivity</i>) 3) P. Mayville, G. Y. Ji, R. Beavis, H. M. Yang, M. Goger, R. P. Novick, and T. W. Muir, <i>Proc. Natl. Acad. Sci. U. S. A.</i> , 96 , 1218 (1999). (<i>Chem. Synthesis</i>) 4) B. Wang, and T. W. Muir, <i>Cell Chem. Biol.</i> , 23 , 214 (2016). (<i>Review</i>)			
4516-v	AIP-II Autoinducing Peptide-II, AIP2 Gly-Val-Asn-Ala-Cys-Ser-Ser-Leu-Phe (Thioester bond between Cys ⁵ -Phe ⁹) (Trifluoroacetate Form) (M.W. 878.99) C ₃₈ H ₅₈ N ₁₀ O ₁₂ S	Vial	0.5 mg	20,000
	New -20°C			
	<i>A Peptide Modulator of Quorum Sensing in Staphylococcus spp.</i> 1) G. Ji, R. Beavis, and R. P. Novick, <i>Science</i> , 276 , 2027 (1997). (<i>Original/Bioactivity</i>) 2) P. Mayville, G. Y. Ji, R. Beavis, H. M. Yang, M. Goger, R. P. Novick, and T. W. Muir, <i>Proc. Natl. Acad. Sci. U. S. A.</i> , 96 , 1218 (1999). (<i>Chem. Synthesis</i>) 3) B. Wang, and T. W. Muir, <i>Cell Chem. Biol.</i> , 23 , 214 (2016). (<i>Review</i>)			
4517-v	AIP-III Autoinducing Peptide-III, AIP3 Ile-Asn-Cys-Asp-Phe-Leu-Leu (Thioester bond between Cys ³ -Leu ⁷) (Trifluoroacetate Form) (M.W. 818.98) C ₃₈ H ₅₈ N ₈ O ₁₀ S	Vial	0.5 mg	20,000
	New -20°C			
	<i>An Apparent Peptide Modulator of Quorum Sensing in Staphylococcus spp.</i> 1) G. Ji, R. Beavis, and R. P. Novick, <i>Science</i> , 276 , 2027 (1997). (<i>Initially Reported Octapeptide</i>) 2) G. J. Lyon, J. S. Wright, T. W. Muir, and R. P. Novick, <i>Biochemistry</i> , 41 , 10095 (2002). (<i>Structure Renovation/Bioactivity/Chem. Synthesis</i>) 3) B. Wang, and T. W. Muir, <i>Cell Chem. Biol.</i> , 23 , 214 (2016). (<i>Review</i>)			
4503-s	Snakin-1 SN1, GSL1 Gly-Ser-Asn-Phe-Cys-Asp-Ser-Lys-Cys-Lys-Leu-Arg-Cys-Ser-Lys-Ala-Gly-Leu-Ala-Asp-Arg-Cys-Leu-Lys-Tyr-Cys-Gly-Ile-Cys-Cys-Glu-Glu-Cys-Lys-Cys-Val-Pro-Ser-Gly-Thr-Tyr-Gly-Asn-Lys-His-Glu-Cys-Pro-Cys-Tyr-Arg-Asp-Lys-Lys-Asn-Ser-Lys-Gly-Lys-Ser-Lys-Cys-Pro (Disulfide bonds between Cys ⁵ -Cys ³⁰ , Cys ⁹ -Cys ²⁶ , Cys ¹³ -Cys ²² , Cys ²⁹ -Cys ⁶² , Cys ³³ -Cys ⁴⁹ and Cys ³⁵ -Cys ⁴⁷) (M.W. 6922.0) C ₂₈₅ H ₄₅₄ N ₈₈ O ₈₉ S ₁₂	Vial	0.1 mg	30,000
	New -20°C			
	<i>Antimicrobial Peptide</i> 1) A. Segura, M. Moreno, F. Madueno, A. Molina, and F. Garcia-Olmedo, <i>Mol. Plant-Microbe Interact.</i> , 12 , 16 (1999). (<i>Original</i>) 2) P. W. R. Harris, S.-H. Yang, A. Molina, G. Lopez, M. Middleditch, and M. A. Brimble, <i>Chem. Eur. J.</i> , 20 , 5102 (2014). (<i>Chem. Synthesis</i>) 3) H. Yeung, C. J. Squire, Y. Yosaatmadja, S. Panjikar, G. Lopez, A. Molina, E. N. Baker, P. W. Harris, and M. A. Brimble, <i>Angew. Chem. Int. Ed.</i> , 55 , 7930 (2016). (<i>S-S Bond</i>) 4) M. R. Kuddus, F. Rumi, M. Tsutsumi, R. Takahashi, M. Yamano, M. Kamiya, T. Kikukawa, M. Demura, and T. Aizawa, <i>Protein Expr. Purif.</i> , 122 , 15 (2016). (<i>Rec. Synthesis</i>) 5) H. Senechal, J. Santrucek, M. Melcova, P. Svoboda, J. Zidkova, D. Charpin, L. Guilloux, Y. Shahali, M. A. Selva, R. Couderc, T. Aizawa, and P. Poncet, <i>J. Allergy Clin. Immunol.</i> , 141 , 411 (2018). (<i>Pharmacol.</i>) 6) M. Oliveira-Lima, A. M. Benko-Iseppon, J. R. C. F. Neto, S. Rodriguez-Decuadro, E. A. Kido, S. Crovella, and V. Pandolfi, <i>Curr. Protein Pept. Sci.</i> , 18 , 368 (2017). (<i>Review</i>)			

Peptide Tools

Code	Compound			Price:Yen
3413-v New -20°C	Val-His-Leu-Thr-Pro-Glu L-Valyl-L-histidyl-L-leucyl-L-threonyl-L-prolyl-L-glutamic acid (Trifluoroacetate Form) (M.W. 694.78) C ₃₁ H ₅₀ N ₈ O ₁₀ <i>N-Terminal Hexapeptide of Hb β-Chain</i>	Vial	0.5 mg	3,000
	1) U. Kobold, J.O. Jeppsson, T. Duelffer, A. Finke, W. Hoelzel, and K. Miedema, <i>Clin. Chem.</i> , 43 , 1944 (1997).			
3414-v New -20°C	Val-His-[D7]Leu-Thr-Pro-Glu Val-His-*Leu-Thr-Pro-Glu *Leu: Leucine-(isopropyl-d ₇) (Trifluoroacetate Form) (M.W. 701.82) C ₃₁ H ₄₃ D ₇ N ₈ O ₁₀ <i>Stable Isotope-Labeled N-Terminal Hexapeptide of Hb β-Chain</i>	Vial	50 µg	10,000
	1) U. Kobold, J.O. Jeppsson, T. Duelffer, A. Finke, W. Hoelzel, and K. Miedema, <i>Clin. Chem.</i> , 43 , 1944 (1997). 2) T. Nakanishi, K. Iguchi, and A. Shimizu, <i>Clin. Chem.</i> , 49 , 829 (2003). (Measurement Using The Isotope-labeled Compound)			
3415-v New -20°C	1-Deoxyfructosyl-Val-His-[D7]Leu-Thr-Pro-Glu 1-Deoxyfructosyl-Val-His-*Leu-Thr-Pro-Glu *Leu: Leucine-(isopropyl-d ₇) (Trifluoroacetate Form) (M.W. 863.96) C ₃₇ H ₅₃ D ₇ N ₈ O ₁₅ <i>Stable Isotope-Labeled N-Terminal Hexapeptide of HbA1c β-Chain</i>	Vial	50 µg	20,000
	1) U. Kobold, J.O. Jeppsson, T. Duelffer, A. Finke, W. Hoelzel, and K. Miedema, <i>Clin. Chem.</i> , 43 , 1944 (1997). 2) T. Nakanishi, K. Iguchi, and A. Shimizu, <i>Clin. Chem.</i> , 49 , 829 (2003). (Measurement Using The Isotope-labeled Compound)			
3417-s New -20°C	Lys(1-Deoxyfructosyl)[¹³C₆] ¹³ C ₆ -DOF-Lys, [¹³ C ₆]-DFLys N ^ε -(1-Deoxy-D-[U- ¹³ C]fructos-1-yl)-L-lysine (Trifluoroacetate Form) (M.W. 314.28) C ₆ ¹³ C ₆ H ₂₄ N ₂ O ₇ <i>Stable Isotope-Labeled Lys(1-Deoxyfructosyl)</i>	Vial	0.1 mg	20,000
	1) F. Vinale, V. Fogliano, P. Schieberle, and T. Hofmann, <i>J. Agric. Food Chem.</i> , 47 , 5084 (1999). (Original) 2) A.D. Troise, <i>Curr. Opin. Food Sci.</i> , 19 , 15 (2018). (Review)			

Peptide Tools (continued)

Code	Compound		Price:Yen
3420-v	6-[D10]Leu-Glargin [[² H ₁₀]Leu ^{A13,A16,B6,B11,B15,B17}]-Glargin	Vial 20 µg	20,000
	New -20°C		
	A-chain: Gly-Ile-Val-Glu-Gln-Cys-Cys-Thr-Ser-Ile-Cys-Ser-[² H ₁₀]Leu-Tyr-Gln-[² H ₁₀]Leu-Glu-Asn-Tyr-Cys-Gly B-chain: Phe-Val-Asn-Gln-His-[² H ₁₀]Leu-Cys-Gly-Ser-His-[² H ₁₀]Leu-Val-Glu-Ala-[² H ₁₀]Leu-Tyr-[² H ₁₀]Leu-Val-Cys-Gly-Glu-Arg-Gly-Phe-Phe-Tyr-Thr-Pro-Lys-Thr-Arg-Arg (Disulfide bonds between Cys ^{A6} -Cys ^{A11} , Cys ^{A7} -Cys ^{B7} , Cys ^{A20} -Cys ^{B19}) (Trifluoroacetate form) (M.W. 6123.3) C ₂₆₇ H ₃₄₄ D ₆₀ N ₇₂ O ₇₈ S ₆		
	<i>Stable Isotope-Labeled Insulin Glargine</i>		
	1) Y. Xu, L. Sun, M. Anderson, P. Belanger, V. Trinh, P. Lavallee, B. Kantesaria, M.J. Marcoux, S. Breidinger, K.P. Bateman, D. Goykhman, and E.J. Woolf, <i>J. Chromatogr. B</i> , 1063 , 50 (2017).		
3421-v	4-[D10]Leu-M1 [[² H ₁₀]Leu ^{B6,B11,B15,B17}]-M1	Vial 20 µg	20,000
	New -20°C		
	A-chain: Gly-Ile-Val-Glu-Gln-Cys-Cys-Thr-Ser-Ile-Cys-Ser-Leu-Tyr-Gln-Leu-Glu-Asn-Tyr-Cys-Gly B-chain: Phe-Val-Asn-Gln-His-[² H ₁₀]Leu-Cys-Gly-Ser-His-[² H ₁₀]Leu-Val-Glu-Ala-[² H ₁₀]Leu-Tyr-[² H ₁₀]Leu-Val-Cys-Gly-Glu-Arg-Gly-Phe-Phe-Tyr-Thr-Pro-Lys-Thr (Disulfide bonds between Cys ^{A6} -Cys ^{A11} , Cys ^{A7} -Cys ^{B7} , Cys ^{A20} -Cys ^{B19}) (Trifluoroacetate form) (M.W. 5790.8) C ₂₅₅ H ₃₄₀ D ₄₀ N ₆₄ O ₇₆ S ₆		
	<i>Stable Isotope-Labeled Insulin Glargine Metabolite M1</i>		
	1) Y. Xu, L. Sun, M. Anderson, P. Belanger, V. Trinh, P. Lavallee, B. Kantesaria, M.J. Marcoux, S. Breidinger, K.P. Bateman, D. Goykhman, and E.J. Woolf, <i>J. Chromatogr. B</i> , 1063 , 50 (2017).		
3422-v	Lipo-Oxytocin-1 LOT-1	Vial 0.5 mg	15,000
	New -20°C		
	Palmitoyl-Cys-Tyr(Palmitoyl)-Ile-Gln-Asn-Cys-Pro-Leu-Gly-NH ₂ (Disulfide bond between Cys ¹ -Cys ⁶) (M.W. 1484.0) C ₇₅ H ₁₂₆ N ₁₂ O ₁₄ S ₂		
	<i>Lipidated Oxytocin Analog with Long-Lasting Activities</i>		
	1) A. Mizuno, S.M. Cherepanov, Y. Kikuchi, A.A. Fakhrl, S. Akther, K. Deguchi, T. Yoshihara, K. Ishihara, S. Shuto, and H. Higashida, <i>Brain Sci.</i> , 5 , 3 (2015). (<i>Original</i> ; LOT-1/Novel Oxytocin Analog with Two Palmitoyl Groups) 2) S.M. Cherepanov, S. Yokoyama, A. Mizuno, W. Ichinose, O. Lopatina, A.A. Shabalova, A.B. Salmina, Y. Yamamoto, H. Okamoto, S. Shuto, and H. Higashida, <i>Pharmacol. Res. Perspect.</i> , 5 , e00290 (2017). (<i>Comparative Study with Other LOTs</i>) 3) S.M. Cherepanov, S. Akther, T. Nishimura, A.A. Shabalova, A. Mizuno, W. Ichinose, S. Shuto, Y. Yamamoto, S. Yokoyama, and H. Higashida, <i>Brain Sci.</i> , 7 , 132 (2017). (<i>Comparative Study with Other LOTs</i>)		
4521-v	FK-565 Heptanoyl-D-Glu(Dpm-D-Ala) Dpm: meso-diaminopimelyl	Vial 1 mg	50,000
	New -20°C		
	(M.W. 502.56) C ₂₂ H ₃₈ N ₄ O ₉		
	<i>Immunostimulating Peptide</i>		
			
	1) Y. Kitaura, H. Takeno, M. Aratani, S. Okada, S. Yonishi, K. Hemmi, O. Nakaguchi, and M. Hashimoto, <i>Experientia</i> , 38 , 1101 (1982). (<i>Original</i>)		

Carbohydrate and Glycopeptide

Code	Compound		Price:Yen
22105	Fmoc-Asn[per-O-Boc-(Fucα1-6GlcNAcβ)]	Bulk 10 mg	50,000
New	Fmoc-Asn[penta-O-Boc-(Fucα1-6GlcNAcβ)]		
-20°C	<i>N</i> ^ε -9-Fluorenylmethoxycarbonyl- <i>N</i> ^α -[2,3,4-tri- <i>O</i> - <i>t</i> -butyloxycarbonyl- α -L-fucopyranosyl-(1 \rightarrow 6)-3,4-di- <i>O</i> - <i>t</i> -butyloxycarbonyl-2-acetamido-2-deoxy- β -D-glucopyranosyl]-L-asparagine (M.W. 1204.3) C ₅₈ H ₈₁ N ₃ O ₂₄		
			
	<i>Fmoc-Amino Acid for the Synthesis of Fucα(1-6)GlcNAc-β-Asn-Containing Peptide</i>		
24016-s	[Ara₃]CLV3 Peptide	Vial 0.1 mg	30,000
New	β-1,2-Linked Triarabinosylated CLAVATA3 Peptide		
-20°C	Arg-Thr-Val-Hyp-Ser-Gly-Hyp(Ara ₃)-Asp-Pro-Leu-His-His-His Hyp(Ara ₃): 4- <i>O</i> -[β -L-Arabinofuranosyl-(1 \rightarrow 2)- β -L-arabinofuranosyl-(1 \rightarrow 2)- β -L-arabinofuranosyl]-L-hydroxyproline (Trifluoroacetate Form) (M.W. 1877.9) C ₇₈ H ₁₂₀ N ₂₂ O ₃₂		
	<i>Tridecapeptide Regulating Stem Cell Fate in the Shoot Apical Meristem of Arabidopsis</i>		
	1) S.E. Clark, M.P. Running, and E.M. Meyerowitz, <i>Development</i> , 121 , 2057 (1995). (<i>Original</i> ; <i>cDNA of CLV3</i>) 2) K. Ohyama, H. Shinohara, M. Ogawa-Ohnishi, and Y. Matsubayashi, <i>Nat. Chem. Biol.</i> , 5 , 578 (2009). (<i>Original</i> ; <i>[Ara₃]CLV3 Peptide</i>) 3) H. Shinohara, and Y. Matsubayashi, <i>Plant Cell Physiol.</i> , 54 , 369 (2013). (<i>Chem. Synthesis</i>) 4) S. Betsuyaku, S. Sawa, and M. Yamada, <i>The Arabidopsis Book</i> , 9 , e0149 (2011). (<i>Review</i>)		
24017-s	Penta-O-glycosylated IgA1 Hinge Region Peptide	Vial 0.1 mg	20,000
New	[Thr(GalNAc) ^{4,7,15} , Ser(GalNAc) ^{9,11}]-IgA1 Hinge Region Peptide		
-20°C	Val-Pro-Ser-Thr(GalNAc)-Pro-Pro-Thr(GalNAc)-Pro-Ser(GalNAc)-Pro-Ser(GalNAc)-Thr-Pro-Pro-Thr(GalNAc)-Pro-Ser-Pro-Ser-NH ₂ (Trifluoroacetate Form) (M.W. 2846.0) C ₁₂₁ H ₁₉₃ N ₂₅ O ₅₃		
	<i>IgA1 Hinge Portion Related to IgA Nephropathy</i>		
	1) T.S. Mattu, R.J. Pleass, A.C. Willis, M. Kilian, M.R. Wormald, A.C. Lellouch, P.M. Rudd, J.M. Woof, and R.A. Dwek, <i>J. Biol. Chem.</i> , 273 , 2260 (1998). (<i>Assignment of Glycosylation Site of IgA1 Hinge Region</i>) 2) I. Nakamura, H. Iwase, K. Arai, Y. Nagai, K. Toma, T. Katsumata, Y. Hiki, T. Kokubo, T. Sano, and Y. Kobayashi, <i>Nephrology (Carlton)</i> , 9 , 26 (2004).		
4522-v	IgA1 Hinge Region Peptide	Vial 0.5 mg	10,000
New	Nonglycosylated IgA1 Hinge Region Peptide		
-20°C	Val-Pro-Ser-Thr-Pro-Pro-Thr-Pro-Ser-Pro-Ser-Thr-Pro-Pro-Thr-Pro-Ser-Pro-Ser-NH ₂ (Trifluoroacetate Form) (M.W. 1830.0) C ₈₁ H ₁₂₈ N ₂₀ O ₂₈		
	<i>IgA1 Hinge Portion Related to IgA Nephropathy</i>		
	1) T.S. Mattu, R.J. Pleass, A.C. Willis, M. Kilian, M.R. Wormald, A.C. Lellouch, P.M. Rudd, J.M. Woof, and R.A. Dwek, <i>J. Biol. Chem.</i> , 273 , 2260 (1998). (<i>Assignment of Glycosylation Site of IgA1 Hinge Region</i>) 2) I. Nakamura, H. Iwase, K. Arai, Y. Nagai, K. Toma, T. Katsumata, Y. Hiki, T. Kokubo, T. Sano, and Y. Kobayashi, <i>Nephrology (Carlton)</i> , 9 , 26 (2004).		

Enzyme Inhibitors and Miscellaneous Products

Code	Compound			Price:Yen
4519	Ile-Pro-Pro	Bulk	25 mg	18,000
New	IPP		100 mg	50,000
-20°C	L-Isoleucyl-L-Prolyl-L-Proline (M.W. 325.40) C ₁₆ H ₂₇ N ₃ O ₄			
	<i>ACE1 Inhibitor / Antihypertensive Tripeptide</i>			
	1) M. Kohmura, N. Nio, and Y. Ariyoshi, <i>Agric. Biol. Chem.</i> , 54 , 835 (1990). 2) Y. Nakamura, N. Yamamoto, K. Sakai, and T. Takano, <i>J. Dairy Sci.</i> , 78 , 1253 (1995). 3) S. Li, T. Bu, J. Zheng, L. Liu, G. He, and J. Wu, <i>Compr. Rev. Food Sci. Food Saf.</i> , 18 , 1097 (2019). (Review)			
4520	Val-Pro-Pro	Bulk	25 mg	18,000
New	VPP		100 mg	50,000
-20°C	L-Valyl-L-Prolyl-L-Proline (M.W. 311.38) C ₁₅ H ₂₃ N ₃ O ₄			
	<i>ACE1 Inhibitor / Antihypertensive Tripeptide</i>			
	1) Y. Nakamura, N. Yamamoto, K. Sakai, and T. Takano, <i>J. Dairy Sci.</i> , 78 , 1253 (1995). (Original) 2) S. Li, T. Bu, J. Zheng, L. Liu, G. He, and J. Wu, <i>Compr. Rev. Food Sci. Food Saf.</i> , 18 , 1097 (2019). (Review)			
3244	Cyclo(Ala-Pro)	Bulk	25 mg	12,000
New	Cyclo(Pro-Ala), Cyclo(-Ala-Pro-)			
-20°C	(M.W. 168.19) C ₈ H ₁₂ N ₂ O ₂			
	<i>Cyclic Dipeptides (Diketopiperazines)</i>			
3245	Cyclo(Lys-Pro)	Bulk	25 mg	12,000
New	Cyclo(Pro-Lys), Cyclo(-Lys-Pro-)			
-20°C	(M.W. 225.29) C ₁₁ H ₁₉ N ₃ O ₂			
	<i>Cyclic Dipeptides (Diketopiperazines)</i>			
3246	Cyclo(Pro-Pro)	Bulk	25 mg	12,000
New	Cyclo(-Pro-Pro-)			
-20°C	(M.W. 194.23) C ₁₀ H ₁₄ N ₂ O ₂			
	<i>Cyclic Dipeptides (Diketopiperazines)</i>			
3247	Cyclo(Pro-Thr)	Bulk	25 mg	12,000
New	Cyclo(Thr-Pro), Cyclo(-Pro-Thr-), Cyclo(-Pro-Thr)			
-20°C	(M.W. 198.22) C ₉ H ₁₄ N ₂ O ₃			
	<i>Cyclic Dipeptides (Diketopiperazines)</i>			

Enzyme Substrates and Miscellaneous Products

Code	Compound			Price:Yen
3243-v New -20°C	Phe-Met-MCA L-Phenylalanyl-L-methionine 4-methylcoumaryl-7-amide (Tosylate Form) (M.W. 453.55) C ₂₄ H ₂₇ N ₃ O ₄ S	Vial	5 mg	5,000
	<i>Substrate for Bacterial Dipeptidyl Peptidase-7</i> 1) T.K. Nemoto, T. Ono, and Y. Ohara-Nemoto, <i>Anal. Biochem.</i> , 548 , 78 (2018). (Original)			
3248-v New -20°C	Z-Gly-Gly-Arg-MCA Benzyloxycarbonyl-glycylglycyl-L-arginine 4-methylcoumaryl-7-amide (HCl Form) (M.W. 579.60) C ₂₈ H ₃₃ N ₇ O ₇	Vial	5 mg	5,000
	<i>Substrate for Thrombin</i> 1) M. Zimmermzn, J.P. Quigley, B. Ashe, C. Dorn, R. Goldfarb, and W. Troll, <i>Proc. Natl. Acad. Sci. U. S. A.</i> , 75 , 750 (1978). (Original) 2) J. Kintigh, P. Monagle, and V. Ignjatovic, <i>Res. Pract. Thromb. Haemost.</i> , 2 , 42 (2018). (Review; Substrate for Thrombin)			
3412-v New -20°C	β-Ala-Lys(AMCA) β-Alanyl-N ^ε -(7-amino-4-methyl-2-oxo-2H-1-benzopyran-3-acetyl)-L-lysine (Trifluoroacetate Form) (M.W. 432.47) C ₂₁ H ₂₈ N ₄ O ₆	Vial	5 mg	20,000
	<i>Fluorescent Tracer for Oligopeptide Transporters</i> 1) C. Otto and K. Bauer, <i>Anat. Rec.</i> , 245 , 662 (1996). (Original) 2) S.T. Dieck, H. Heuer, J. Ehrchen, C. Otto, and K. Bauer, <i>Glia</i> , 25 , 10 (1999). (Biochem.; Fluorescent Reporter Peptide) 3) K. Ito, A. Hikida, S. Kawai, V.T.T. Lan, T. Motoyama, S. Kitagawa, Y. Yoshikawa, R. Kato, and Y. Kawarasaki, <i>Nat. Commun.</i> , 4 , 2502 (2013). (Biochem.; Substrate for Peptide Transporter)			
3416 New -20°C	Azido-PEG₃-DYKDDDDK N₃PEG₃-DYKDDDDK N ₃ PEG ₃ -Asp-Tyr-Lys-Asp-Asp-Asp-Asp-Lys (Trifluoroacetate Form) (M.W. 1228.2) C ₄₉ H ₇₃ N ₁₃ O ₂₄	Bulk	2 mg	15,000
	<i>For the Attachment of the Flag Tag by Click Chemistry</i> 1) H.C. Kolb, M.G. Finn, and K.B. Sharpless, <i>Angew. Chem. Int. Ed.</i> , 40 , 2004 (2001). (Review; Click Chemistry) 2) P. Thirumurugan, D. Matosiuk, and K. Jozwiak, <i>Chem. Rev.</i> , 113 , 4905 (2013). (Review; Click Chemistry)			

PEPTIDE INSTITUTE, INC.

7-2-9 Saito-Asagi, IBARAKI-SHI
OSAKA 567-0085 JAPAN
Phone: +81-72-643-4411
Fax: +81-72-643-4422
E-mail: info@peptide.co.jp
<https://www.peptide.co.jp/>

株式会社 ペプチド研究所

〒567-0085 大阪府 茨木市 彩都あさぎ 7-2-9
電話: 072-643-4411 FAX: 072-643-4422
E-mail: info@peptide.co.jp
<https://www.peptide.co.jp/>

カタログ製品に関して
電話: 072-643-4480
E-mail: sales@peptide.co.jp

受託サービスに関して
電話: 072-643-4343
E-mail: custom@peptide.co.jp