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Higher Yield, Simplify Process, Save Money and Save Time!

aapptec Pseudoproline Dipeptides

Pseudoproline dipeptides are useful building blocks developed by Mutter for preparing all types of peptides including long or "difficult" peptides (Mutter M., et al. Pept. Res. 1995, 8, 145, Wöhr T., et al. J. Am. Chem. Soc. 1996, 118, 9218, White P, et al., J. Pept. Sci. 2004, 10, 18.)

Pseudoproline dipeptides have proved to increase synthesis yield, while saving valuable time and money.

How can pseudoproline dipeptides work in synthesis? In the peptide chain, the amide bond between the pseudoproline dipeptide and the preceding amino acid preferentially adopts a cis configuration. This creates a kink in the peptide backbone that prevents self-association, β -sheet formation and peptide aggregation.

Pseudoproline dipeptides markedly improve solubility of fragment condensation reactions by disrupting aggregation and β -sheet formation.

Pseudoprolines improve your linear peptide cyclization options due to their tendency to form a kink in the peptide backbone. Park and coworkers (Page K, et al. J. Pept. Sci. 2007, 13, 833.) found that incorporating a pseudoproline dipeptide accelerated the on-resin cyclization of linear amylin (1-13).

Pseudoproline dipeptides reduce racemization of your peptides as well. C-terminal pseudoprolines eliminate the risk of epimerization at the C-terminal during fragment coupling.

Pseudoproline dipeptides are powerful tools for enhancing the synthesis of standard peptides, cyclic peptides, long peptides and difficult peptides. Pseudoproline dipeptides can be used to increase common peptide yield or the production of peptides that would otherwise be impossible or impractical to synthesize.

Call us at 888.692.9111 or email us at info@aapptec.com to discuss how pseudoproline dipeptides can be used with your peptides.

Please visit us on the web at www.aapptec.com.



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aappTec Pseudoproline Dipeptides

Catalog Number	Pseudoproline Dipeptide	Quantity	Price	Catalog Number	Pseudoproline Dipeptide	Quantity	Price
PPD001	Fmoc-Ala-Ser($\Psi^{\text{Me,Me}}$ pro)-OH	1g 5g	\$50 \$200	PPD015	Fmoc-Leu-Ser($\Psi^{\text{Me,Me}}$ pro)-OH	1g 5g	\$50 \$200
PPD002	Fmoc-Ala-Thr($\Psi^{\text{Me,Me}}$ pro)-OH	1g 5g	\$50 \$200	PPD016	Fmoc-Leu-Thr($\Psi^{\text{Me,Me}}$ pro)-OH	1g 5g	\$50 \$200
PPD003	Fmoc-Asn(Trt)-Ser($\Psi^{\text{Me,Me}}$ pro)-OH	1g 5g	\$50 \$200	PPD017	Fmoc-Lys(Boc)-Ser($\Psi^{\text{Me,Me}}$ pro)-OH	1g 5g	\$50 \$200
PPD004	Fmoc-Asn(Trt)-Thr($\Psi^{\text{Me,Me}}$ pro)-OH	1g 5g	\$50 \$200	PPD018	Fmoc-Lys(Boc)-Thr($\Psi^{\text{Me,Me}}$ pro)-OH	1g 5g	\$50 \$200
PPD005	Fmoc-Asp(OtBu)-Ser($\Psi^{\text{Me,Me}}$ pro)-OH	1g 5g	\$50 \$200	PPD019	Fmoc-Phe-Ser($\Psi^{\text{Me,Me}}$ pro)-OH	1g 5g	\$50 \$200
PPD006	Fmoc-Asp(OtBu)-Thr($\Psi^{\text{Me,Me}}$ pro)-OH	1g 5g	\$50 \$200	PPD020	Fmoc-Phe-Thr($\Psi^{\text{Me,Me}}$ pro)-OH	1g 5g	\$50 \$200
PPD007	Fmoc-Gln(Trt)-Ser($\Psi^{\text{Me,Me}}$ pro)-OH	1g 5g	\$50 \$200	PPD021	Fmoc-Ser(tBu)-Ser($\Psi^{\text{Me,Me}}$ pro)-OH	1g 5g	\$50 \$200
PPD008	Fmoc-Gln(Trt)-Thr($\Psi^{\text{Me,Me}}$ pro)-OH	1g 5g	\$50 \$200	PPD022	Fmoc-Ser(tBu)-Thr($\Psi^{\text{Me,Me}}$ pro)-OH	1g 5g	\$50 \$200
PPD009	Fmoc-Glu(OtBu)-Ser($\Psi^{\text{Me,Me}}$ pro)-OH	1g 5g	\$50 \$200	PPD023	Fmoc-Trp(Boc)-Ser($\Psi^{\text{Me,Me}}$ pro)-OH	1g 5g	\$50 \$200
PPD010	Fmoc-Glu(OtBu)-Thr($\Psi^{\text{Me,Me}}$ pro)-OH	1g 5g	\$50 \$200	PPD024	Fmoc-Trp(Boc)-Thr($\Psi^{\text{Me,Me}}$ pro)-OH	1g 5g	\$50 \$200
PPD011	Fmoc-Gly-Ser($\Psi^{\text{Me,Me}}$ pro)-OH	1g 5g	\$50 \$200	PPD025	Fmoc-Tyr(tBu)-Ser($\Psi^{\text{Me,Me}}$ pro)-OH	1g 5g	\$50 \$200
PPD012	Fmoc-Gly-Thr($\Psi^{\text{Me,Me}}$ pro)-OH	1g 5g	\$50 \$200	PPD026	Fmoc-Tyr(tBu)-Thr($\Psi^{\text{Me,Me}}$ pro)-OH	1g 5g	\$50 \$200
PPD013	Fmoc-Ile-Ser($\Psi^{\text{Me,Me}}$ pro)-OH	1g 5g	\$50 \$200	PPD027	Fmoc-Val-Ser($\Psi^{\text{Me,Me}}$ pro)-OH	1g 5g	\$50 \$200
PPD014	Fmoc-Ile-Thr($\Psi^{\text{Me,Me}}$ pro)-OH	1g 5g	\$50 \$200	PPD028	Fmoc-Val-Thr($\Psi^{\text{Me,Me}}$ pro)-OH	1g 5g	\$50 \$200

For pricing on larger quantities, please contact us at 888.692.9111.

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