Product Data Sheet

Product Name: Fmoc-Hyp(tBu)-OH
Cat. No.: GA10459

Chemical Properties

Cas. No.	122996-47-8		
Chemical Name	(2S)-1-(9H-fluoren-9-ylmethoxycarbonyl)-4-[(2-methylpropan-2-yl)oxy]pyrrolidine-2-carboxylic acid		
SMILES	CC(C)(C)OC1CC(N(C1)C(=O)OCC2C3=CC=CC=C3C4=CC=CC=C24)C(=O)O		
Formula	$C_{24}H_{27}NO_5$	M.Wt	409
Solubility	50 mg/mL in DMSO (ultrasonic and warming and heat to 60°C)	Storage	-20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	Fmoc-Hyp(tBu)-OH		

Background

Fmoc-Hyp(tBu)-OH is a derivative of hydroxyproline and is commonly used as a building block in peptide synthesis [1]. Fmoc-Hyp(tBu)-OH can be used in the solid-phase peptide synthesis (SPPS) process to prepare glycopeptides with long peptide chains[2]. Fmoc-Hyp(tBu)-OH can be used in the stepwise chain elongation method to synthesize heterotrimeric collagen peptides containing functional epitopes[3].

References:
[1] Shoulders M D, Kotch F W, Choudhary A, et al. The aberrance of the 4 S diastereomer of 4-hydroxyproline[J]. Journal of the American Chemical Society, 2010, 132(31): 10857-10865.
[2] van de Sande J W, Albada B. Chemical synthesis of glycopeptides containing L-arabinosylated hydroxyproline and sulfated tyrosine[J]. Organic Letters, 2023, 25(11): 1907-1911.

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[3] Ottl J, Jürgen Musiol H, Moroder L. Heterotrimeric collagen peptides containing functional epitopes. Synthesis of single-stranded collagen type I peptides related to the collagenase cleavage site[J]. Journal of Peptide Science: An Official Publication of the European Peptide Society, 1999, 5(2): 103-110.

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