

Fmoc-Arg(Pbf)-OH

Chemical Properties

CAS No. : 154445-77-9

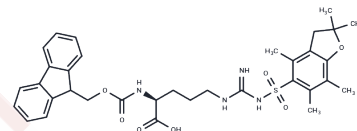
Formula: C₃₄H₄₀N₄O₇S

Molecular Weight: 648.78

Keep away from moisture

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Fmoc-Arg(Pbf)-OH is a chemically protected amino acid derivative widely employed in life science research, particularly in solid-phase peptide synthesis, enabling the construction of arginine-containing peptides with high efficiency, selectivity, and stability for biochemical and pharmacological studies.
Targets(IC50)	Others,Amino Acids and Derivatives

Solubility Information

Solubility	DMSO: 80 mg/mL (123.31 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5414 mL	7.7068 mL	15.4135 mL
5 mM	0.3083 mL	1.5414 mL	3.0827 mL
10 mM	0.1541 mL	0.7707 mL	1.5414 mL
50 mM	0.0308 mL	0.1541 mL	0.3083 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Beatriz G, et al. Successful development of a method for the incorporation of Fmoc-Arg (Pbf)-OH in solid-phase peptide synthesis using N-butylpyrrolidinone (NBP) as solvent. *Green Chemistry*, 2020, 22(10): 3162-3169.

Wojciechowski JP, et al. A Facile Method to Quantify Synthetic Peptide Concentrations on Biomaterials. *ACS Appl Mater Interfaces*. 2024 Sep 18;16(37):49880-49888.

Li S, et al. Inclusion complex based on N-acetyl-L-cysteine and arginine modified hydroxypropyl- β -cyclodextrin for oral insulin delivery. *Carbohydr Polym*. 2021 Jan 15;252:117202.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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