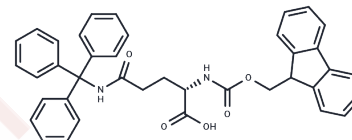


Fmoc-Gln(Trt)-OH

Chemical Properties

CAS No. :	132327-80-1
Formula:	C ₃₉ H ₃₄ N ₂ O ₅
Molecular Weight:	610.7
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-Gln(Trt)-OH is an N-Fmoc and O-Trityl protected derivative of glutamine utilized as a reagent in solid-phase peptide synthesis. Fmoc-Gln(Trt)-OH functions as a sulfonylation reagent in organic chemistry and as a biomaterial in biochemical research, providing a stable and reactive intermediate for constructing peptides and conjugates with high yield and purity.
Targets(IC50)	Others
In vitro	During peptide chain synthesis, the use of Fmoc-protected glutamine derivative Fmoc-Gln(Trt)-OH can effectively suppress undesired side reactions of glutamine, thereby ensuring the accurate assembly of the peptide chain [2].

Solubility Information

Solubility	DMSO: 80 mg/mL (131 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	1.6375 mL	8.1873 mL	16.3747 mL
5 mM	0.3275 mL	1.6375 mL	3.2749 mL
10 mM	0.1637 mL	0.8187 mL	1.6375 mL
50 mM	0.0327 mL	0.1637 mL	0.3275 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

Carey RI, et al. Protection of asparagine and glutamine during N alpha-Bpoc-based solid-phase peptide synthesis. Int J Pept Protein Res. 1996 Mar;47(3):209-13.

Alewood P, et al. [2] Rapid in situ neutralization protocols for Boc and Fmoc solid-phase chemistries. Methods in enzymology, 1997, 289: 14-29.

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