

Fmoc-Thr(tBu)-OH

Chemical Properties

CAS No. : 71989-35-0

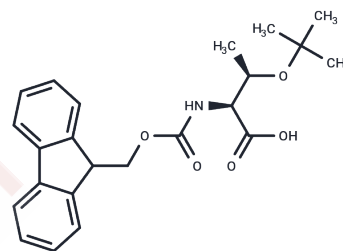
Formula: C₂₃H₂₇N₁O₅

Molecular Weight: 397.47

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-Thr(tBu)-OH is a threonine derivative commonly used in Fmoc-based solid-phase peptide synthesis, with the t-butyl side-chain protecting group removable under TFA treatment while remaining stable during cleavage from Wang or Rink amide resins, allowing controlled peptide assembly.
Targets(IC50)	Others,Amino Acids and Derivatives
In vitro	Fmoc-Thr(tBu)-OH can be used in solid-phase peptide synthesis for constructing chlorofusin analogs of broussonetia papyrifera, while also serving as a protective group for amino and hydroxyl groups in the solid-phase synthesis of complex depsipeptides. [1][2]

Solubility Information

Solubility	DMSO: 80 mg/mL (201.27 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	2.5159 mL	12.5796 mL	25.1591 mL
5 mM	0.5032 mL	2.5159 mL	5.0318 mL
10 mM	0.2516 mL	1.258 mL	2.5159 mL
50 mM	0.0503 mL	0.2516 mL	0.5032 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

A Lobo-Ruiz, et al. General Fmoc-Based Solid-Phase Synthesis of Complex Depsipeptides Circumventing Problematic Fmoc Removal. *European Journal of Organic Chemistry*, 2020, 183-192 (2020)

ECY Woon, et al. Solid-phase synthesis of chlorofusin analogues. *The Journal of Organic Chemistry*, 72, 5146-5151 (2007)

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