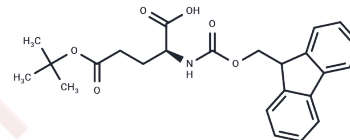


Fmoc-L-glutamic acid 5-tert-butyl ester

Chemical Properties

CAS No. :	71989-18-9
Formula:	C ₂₄ H ₂₇ N ₁ O ₆
Molecular Weight:	425.47
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Fmoc-L-glutamic acid 5-tert-butyl ester (Fmoc-Glu(OtBu)-OH) is a glutamic acid derivative.
Targets(IC50)	Amino Acids and Derivatives
In vitro	Amino acids and their derivatives are commercially utilized as ergogenic supplements, influencing anabolic hormone secretion, fuel supply during exercise, mental performance under stress, and prevention of exercise-induced muscle damage. They are recognized as beneficial ergogenic dietary substances [1].

Solubility Information

Solubility	DMSO: 90 mg/mL (211.53 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	2.3503 mL	11.7517 mL	23.5034 mL
5 mM	0.4701 mL	2.3503 mL	4.7007 mL
10 mM	0.235 mL	1.1752 mL	2.3503 mL
50 mM	0.047 mL	0.235 mL	0.4701 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

Luckose F, et al. Effects of amino acid derivatives on physical, mental, and physiological activities. Crit Rev Food Sci Nutr. 2015;55(13):1793-1144.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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