

Fmoc-L-aspartic acid

Chemical Properties

CAS No. : 119062-05-4

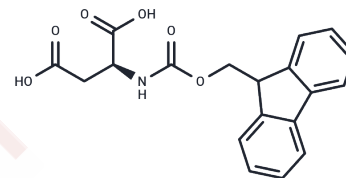
Formula: C₁₉H₁₇N₁O₆

Molecular Weight: 355.34

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-L-aspartic acid (Fmoc-Asp-OH) is an aspartic acid derivative.
Targets(IC50)	Amino Acids and Derivatives
In vitro	Amino acids and their derivatives are commercially used as ergogenic supplements. They impact anabolic hormone secretion, fuel supply during exercise, mental performance under stress, and prevention of exercise-induced muscle damage. These compounds are recognized as beneficial ergogenic dietary substances [1].

Solubility Information

Solubility	DMSO: 60 mg/mL (168.85 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (5.63 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8142 mL	14.071 mL	28.1421 mL
5 mM	0.5628 mL	2.8142 mL	5.6284 mL
10 mM	0.2814 mL	1.4071 mL	2.8142 mL
50 mM	0.0563 mL	0.2814 mL	0.5628 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.

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