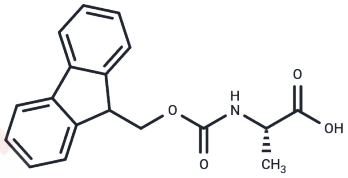
Data Sheet (Cat.No.T67563)

TargetMol

Fmoc-Ala-OH

Chemical Properties



CAS No. : 35661-39-3

Formula: C18H17NO4

Molecular Weight: 311.34

Storage: Keep away from moisture
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-Ala-OH is a chemically protected alanine derivative for use in life science research,Fmoc-Ala-OH can be used in the synthesis of perovskite solar cell, impedance spectroscopy revealed a decreased charge transfer resistance and an increased recombination resistance after amino acid passivation.Fmoc-Ala-OH is widely employed in solid-phase peptide synthesis and biochemical investigations.
Targets(IC50)	Others,Amino Acids and Derivatives
In vitro	Common uses of Fmoc-Ala-OH include serving as a component in the preparation of triazole peptides and aza-peptides [1]. Synthesizing dicationic porphyrin peptides via standard Fmoc solid-phase peptide synthesis [2]. Converting Mannich adducts into α-haloamides without undergoing aziridination [3].

Solubility Information

Solubility	DMSO: 40 mg/mL (128.48 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 (6.42 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2119 mL	16.0596 mL	32.1192 mL
5 mM	0.6424 mL	3.2119 mL	6.4238 mL
10 mM	0.3212 mL	1.606 mL	3.2119 mL
50 mM	0.0642 mL	0.3212 mL	0.6424 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

Galibert M, et al. Substrate-derived triazolo- and azapeptides as inhibitors of cathepsins K and S. Eur J Med Chem. 2018 Jan 20;144:201-210.
Biron E, Voyer N. Towards sequence selective DNA binding: design, synthesis and DNA binding studies of novel bis-porphyrin peptidic nanostructures. Org Biomol Chem. 2008 Jul 21;6(14):2507-15.
Sun B, et al. α-Halo Amides as Competent Latent Enolates: Direct Catalytic Asymmetric Mannich-Type Reaction. J Am Chem Soc. 2017 Jun 21;139(24):8295-8301.