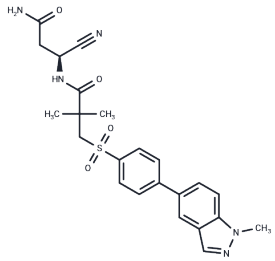
Data Sheet (Cat.No.T39905)

TargetMol

Legumain inhibitor 1

Chemical Properties



CAS No. : 2361157-34-6

Formula: C23H25N5O4S

Molecular Weight: 467.54

Storage: Store at low temperature
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	Legumain inhibitor 1 is a highly potent and specific Legumain inhibitor with potential anticancer activity for cancer research.
Targets(IC50)	Gamma-secretase
In vitro	Legumain inhibitor 1 is a potent and selective Legumain inhibitor commonly used in cancer research, with an IC50 of 3.6 nM[1].

Solubility Information

Solubility	DMSO: 20 mg/mL (42.78 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: 5 mg/mL (10.69 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	2.1389 mL	10.6943 mL	21.3885 mL
5 mM	0.4278 mL	2.1389 mL	4.2777 mL
10 mM	0.2139 mL	1.0694 mL	2.1389 mL
50 mM	0.0428 mL	0.2139 mL	0.4278 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

Sharon L Eddie, et al. Identification and SAR exploration of a novel series of Legumain inhibitors. Bioorg Med Chem Lett. 2019 Jun 15;29(12):1546-1548.