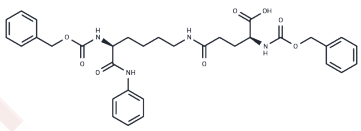
Data Sheet (Cat.No.T11962)

MC3482

Chemical Properties



CAS No. : 2922280-86-0

Formula: C33H38N4O8

Molecular Weight: 618.68

Storage: Store at low temperature,Keep away from direct sunlight
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	MC3482 is a specific inhibitor of sirtuin5 (SIRT5).
Targets(IC50)	Sirtuin
In vitro	MC3482 selectively inhibits the desuccinylating activity of sirtuin5 (SIRT5) at a concentration of 50 μM, without altering SIRT5's intracellular expression levels. Both autophagy and mitophagy are enhanced in cells with silenced SIRT5 and in wild-type cells treated with MC3482, whereas these processes are diminished in cells overexpressing SIRT5[1].

Solubility Information

Solubility	DMSO: 145 mg/mL (234.37 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: 4 mg/mL (6.47 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	1.6163 mL	8.0817 mL	16.1634 mL
5 mM	0.3233 mL	1.6163 mL	3.2327 mL
10 mM	0.1616 mL	0.8082 mL	1.6163 mL
50 mM	0.0323 mL	0.1616 mL	0.3233 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

Polletta L, et al. SIRT5 regulation of ammonia-induced autophagy and mitophagy. Autophagy. 2015;11(2):253-70.