

PROTAC Sirt2 Degradar-1

Chemical Properties

CAS No. : 2098487-75-1

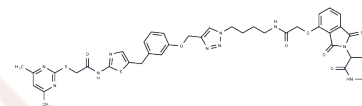
Formula: C₄₀H₄₀N₁₀O₈S₂

Molecular Weight: 852.94

Keep away from direct sunlight

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	PROTAC Sirt2 Degradar-1 is a SirReal-based PROTAC that acts as a Sirt2 degrader, composed of a highly potent and isotype-selective Sirt2 inhibitor, a linker, and a bona fide cereblon ligand for E3 ubiquitin ligase. PROTAC Sirt2 Degradar-1 shows an IC ₅₀ of 0.25 μM for Sirt2, with no effect on Sirt1/Sirt3 (IC ₅₀ s > 100 μM)[1].
Targets(IC ₅₀)	PROTACs,Sirtuin

Solubility Information

Solubility	DMSO: 100 mg/mL (117.24 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: 3.3 mg/mL (3.87 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	1.1724 mL	5.8621 mL	11.7242 mL
5 mM	0.2345 mL	1.1724 mL	2.3448 mL
10 mM	0.1172 mL	0.5862 mL	1.1724 mL
50 mM	0.0234 mL	0.1172 mL	0.2345 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

Schiedel M, et al. Chemically Induced Degradation of Sirtuin 2 (Sirt2) by a Proteolysis Targeting Chimera (PROTAC) Based on Sirtuin Rearranging Ligands (SirReals). J Med Chem. 2018 Jan 25;61(2):482-491.

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