

## SIRT5 inhibitor 1

## Chemical Properties

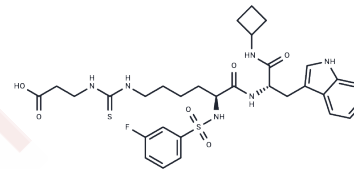
CAS No. : 2166487-21-2

Formula: C<sub>31</sub>H<sub>39</sub>FN<sub>6</sub>O<sub>6</sub>S<sub>2</sub>

Molecular Weight: 674.81

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	SIRT5 inhibitor 1 is a potent and selective inhibitor of human Sirtuin 5 deacylase (IC <sub>50</sub> : 0.11 μM) and is associated with aging-related diseases.
Targets(IC <sub>50</sub> )	Sirtuin
In vitro	SIRT5 inhibitor 1 is a very potent inhibitor of human sirtuin 5 deacylase(IC <sub>50</sub> of 0.11 μM, >100-fold from compound.[1]

## Solubility Information

Solubility	DMSO: 50 mg/mL (74.09 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 (2.96 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

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	1mg	5mg	10mg
1 mM	1.4819 mL	7.4095 mL	14.819 mL
5 mM	0.2964 mL	1.4819 mL	2.9638 mL
10 mM	0.1482 mL	0.7409 mL	1.4819 mL
50 mM	0.0296 mL	0.1482 mL	0.2964 mL

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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

Rajabi N, et al. Mechanism-Based Inhibitors of the Human Sirtuin 5 Deacylase: Structure-Activity Relationship, Biostructural, and Kinetic Insight. *Angew Chem Int Ed Engl.* 2017 ; 56(47):14836-14841.

Molinari F, et al. SIRT5 Inhibition Induces Brown Fat-Like Phenotype in 3T3-L1 Preadipocytes. *Cells.* 2021 ; 10(5): 1126.

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