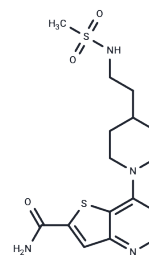


## SIRT-IN-2

## Chemical Properties

CAS No. :	1431411-66-3
Formula:	C15H21N5O3S2
Molecular Weight:	383.49
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	SIRT-IN-2 is a potent SIRT1/2/3 inhibitor [IC50s of 4, 1, and 7 μM, respectively].
Targets(IC50)	Sirtuin
In vitro	SIRT-IN-2 is one of the most potent truncated pan SIRT1/ 2/3 inhibitor(IC50 values are 4, 4, 7 μM, respectively). SIRT-IN-2 binds identically in the catalytic active site (RMS=0.29 ), occupying the nicotinamide C-pocket and acetyl lysine substrate channel.

## Solubility Information

Solubility	DMSO: 62.5 mg/mL (162.98 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 2.5 mg/mL (6.52 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	2.6076 mL	13.0381 mL	26.0763 mL
5 mM	0.5215 mL	2.6076 mL	5.2153 mL
10 mM	0.2608 mL	1.3038 mL	2.6076 mL
50 mM	0.0522 mL	0.2608 mL	0.5215 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

Disch JS, et al. Discovery of thieno[3,2-d]pyrimidine-6-carboxamides as potent inhibitors of SIRT1, SIRT2, and SIRT3. J Med Chem. 2013 May 9;56(9):3666-79.

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