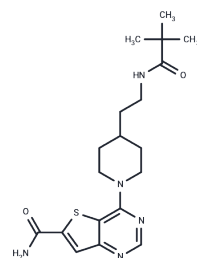


SIRT-IN-1

Chemical Properties

CAS No. :	1431411-60-7
Formula:	C ₁₉ H ₂₇ N ₅ O ₂ S
Molecular Weight:	389.52
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	SIRT-IN-1 is a potent SIRT1/2/3 inhibitor(IC ₅₀ s of 15, 10, 33 μM, respectively).
Targets(IC ₅₀)	Sirtuin
In vitro	SIRT-IN-1 is one of the most potent inhibitor of truncated pan SIRT1/ 2/3(IC ₅₀ values are 0.015, 0.010, 0.033 μM, respectively). SIRT-IN-1 binds identically in the catalytic active site (RMS=0.29), occupying the nicotinamide C-pocket and acetyl lysine substrate channel.

Solubility Information

Solubility	DMSO: 19.23 mg/mL (49.37 mM),Sonication and heating to 60°C are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5673 mL	12.8363 mL	25.6726 mL
5 mM	0.5135 mL	2.5673 mL	5.1345 mL
10 mM	0.2567 mL	1.2836 mL	2.5673 mL
50 mM	0.0513 mL	0.2567 mL	0.5135 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.

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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