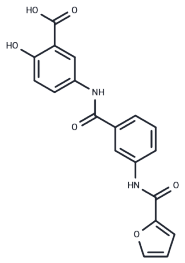
Data Sheet (Cat.No.T4328)

TargetMol

OSS_128167

Chemical Properties



CAS No. : 887686-02-4

Formula: C19H14N2O6

Molecular Weight: 366.32

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	OSS_128167 (SIRT6-IN-1) is a specific SIRT6 inhibitor, and for SIRT6(IC50=89 μM), SIRT1 (IC50=1578 μM) and SIRT2(IC50=751 μM).
Targets(IC50)	HBV,Sirtuin
In vitro	OSS-128167 increases H3K9 acetylation and GLUT-1 expression, and proves to be a selective compounds toward SIRT6.
Kinase Assay	In supernatants from cells, which are incubated in OSS_128167 (100 μM) for 18 hours, TNF-a levels are measured .
Cell Research	BxPC3 cells are stimulated with 100 μM OSS-128167 incubating 0, 2, 6, 18, 24 hours.

Solubility Information

Solubility	H2O: < 1 mg/mL (insoluble or slightly soluble), DMSO: 50 mg/mL (136.49 mM),Sonication is recommended. Ethanol: < 1 mg/mL (insoluble or slightly soluble), (< 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 (5.46 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	2.7299 mL	13.6493 mL	27.2985 mL
5 mM	0.546 mL	2.7299 mL	5.4597 mL
10 mM	0.273 mL	1.3649 mL	2.7299 mL
50 mM	0.0546 mL	0.273 mL	0.546 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

Parenti MD, et al. Discovery of novel and selective SIRT6 inhibitors. J Med Chem. 2014 Jun 12;57(11):4796-804.
Cea M, et al. Evidence for a role of the histone deacetylase SIRT6 in DNA damage response of multiple myeloma cells. Blood. 2016 Mar 3;127(9):1138-50.