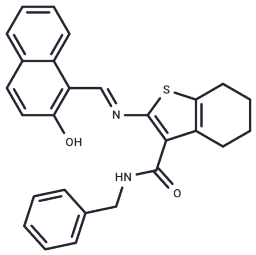
Data Sheet (Cat.No.T22094)

TargetMol

JGB1741

Chemical Properties



CAS No. : 1256375-38-8

Formula: C27H24N2O2S

Molecular Weight: 440.56

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	JGB1741 (ILS-JGB-1741) is a potent and selective inhibitor of SIRT1 with an IC50 of 15 μM. It modulates the Bax/Bcl2 ratio, cytochrome c release, and PARP cleavage, and increases acetylated p53 levels, leading to p53-mediated apoptosis. JGB1741 can be used in breast cancer studies.
Targets(IC50)	Apoptosis,Sirtuin
In vitro	JGB1741 (1-10000 nM) inhibits the cell proliferation of K562, HepG2 and MDA-MB 231 cell lines. JGB1741 (0.01-1 μM) induces apoptosis of MDA-MB 231 and shows a cell cycle arrest at G1 phase with more cells entering into sub G0/G1 phase. JGB1741 (0.01-1 μM) increases the global acetylation of H3K9, acetylated p53K382 levels and p53 expression [1].

Solubility Information

Solubility	DMSO: 4.41 mg/mL (10.01 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2698 mL	11.3492 mL	22.6984 mL
5 mM	0.454 mL	2.2698 mL	4.5397 mL
10 mM	0.227 mL	1.1349 mL	2.2698 mL
50 mM	0.0454 mL	0.227 mL	0.454 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

Arunasree M Kalle, et al. Inhibition of SIRT1 by a small molecule induces apoptosis in breast cancer cells. Biochem Biophys Res Commun. 2010 Oct 8;401(1):13-9.

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