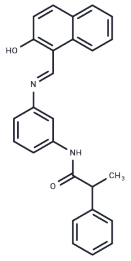
Data Sheet (Cat.No.T3953)

TargetMol

Salermide

Chemical Properties



CAS No. : 1105698-15-4

Formula: C26H22N2O2

Molecular Weight: 394.47

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	Salermide, an inhibitor of Sirt1 and Sirt2, induces cancer-specific apoptotic cell death.
Targets(IC50)	Apoptosis,Sirtuin
In vitro	Salermide prompts tumour-specific cell death in a wide range of human cancer cell lines. The antitumour activity of Salermide is primarily because of a massive induction of apoptosis. Salermide induces apoptosis in cancer but not in normal cells. It induces strong apoptosis without any evident effect on the cell cycle in all the cancer cell lines analysed except in non-tumorigenic MRC5 cells. The induction of apoptosis is cell-type-specific and dose-dependent[1].
In vivo	Salermide is well tolerated by mice at concentrations up to 100 μM, with no adverse health effects observed in terms of diet consumption, body-weight gain, or postural and behavioral changes [1].
Cell Research	Cell viability is determined using the 3-(4,5-dimethylthiazol-2-yl)-2,5-diphenyltetrazolium bromide assay as described earlier. IC50 index is calculated using four Salermide concentrations (25, 50, 75 and 100?μm) for 24?h. The percentage of apoptotic cells is determined with the FACSCalibur apparatus.(Only for Reference)

Solubility Information

Solubility	DMSO: 45 mg/mL (114.08 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2 mg/mL (5.07 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	2.535 mL	12.6752 mL	25.3505 mL
5 mM	0.507 mL	2.535 mL	5.0701 mL
10 mM	0.2535 mL	1.2675 mL	2.535 mL
50 mM	0.0507 mL	0.2535 mL	0.507 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

Lara E, et al. Oncogene. 2009, 28(6):781-91.