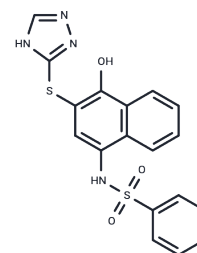


Sirt1/2-IN-2

Chemical Properties

CAS No. :	670267-73-9
Formula:	C18H14N4O3S2
Molecular Weight:	398.46
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	Sirt1/2-IN-2 (compound hsa55) is a dual inhibitor, targeting SIRT1 with an IC50 of 1.8 μ M and SIRT2 with an IC50 of 2.4 μ M. It effectively inhibits p53 deacetylation while enhancing the acetylation of p53 and α -tubulin, promoting apoptosis and exhibiting anti-proliferative effects on human leukemia cell lines [1].
Targets(IC50)	Apoptosis,Sirtuin
In vitro	Sirt1/2-IN-2 (compound hsa55) induces apoptosis in various tumor cell lines at 5 μ M over 48 hours, with IC50 values of 13 μ M for MV4-11, 11.5 μ M for MOLM-13, 34.4 μ M for THP1, and 27.5 μ M for Jurkat cells [1]. At 100 μ M for 30 minutes, it reduces the thermal stability of SIRT1 and SIRT2 proteins at different temperatures. At 25 μ M and 30 μ M over 24 hours, the compound increases acetylated p53 and α -tubulin levels in MOLM-13 cells [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5097 mL	12.5483 mL	25.0966 mL
5 mM	0.5019 mL	2.5097 mL	5.0193 mL
10 mM	0.251 mL	1.2548 mL	2.5097 mL
50 mM	0.0502 mL	0.251 mL	0.5019 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481