

Sirt1/2-IN-4

Chemical Properties

CAS No. :

Formula: C₂₁H₂₀N₄O₃S₂

Molecular Weight: 440.54

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-4 (compound PS3) is a potent triple inhibitor of SIRT1, SIRT2, and SIRT3, exhibiting IC ₅₀ values of 1.2 μM (SIRT1), 1.9 μM (SIRT2), and 18.6 μM (SIRT3), respectively. It effectively inhibits p53 deacetylation, indicating potential anticancer properties [1].
Targets(IC ₅₀)	Sirtuin
In vitro	Sirt1/2-IN-4 (compound PS3) (5 μM; 48 h) induces apoptosis in various tumor cells, with IC ₅₀ values of 6.5 μM (MV4-11), 9.2 μM (MOLM-13), 27.2 μM (THP1), and 17.4 μM (Jurkat) [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2699 mL	11.3497 mL	22.6994 mL
5 mM	0.454 mL	2.2699 mL	4.5399 mL
10 mM	0.227 mL	1.135 mL	2.2699 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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