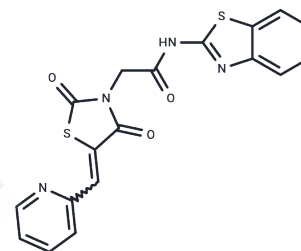


HDAC8-IN-3

Chemical Properties

CAS No. :	2432825-93-7
Formula:	C ₁₈ H ₁₂ N ₄ O ₃ S ₂
Molecular Weight:	396.44
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	HDAC8-IN-3 (compound P19) is a highly potent HDAC8 inhibitor with an IC ₅₀ value of 9.3 μM, inducing thermal stabilization, cytotoxicity, and apoptosis specifically in leukemic cell lines [1].
Targets(IC ₅₀)	Apoptosis,Others,HDAC
In vitro	HDAC8-IN-3 (compound P19), at concentrations ranging from 5-200 μM over 48 hours, exhibits cytotoxic effects in leukemic cell lines, with specific activity demonstrated in HEK293T cells. When administered at 50 μM, this compound notably inhibits glucose transporter 1 (GLUT1)-mediated glucose transport by reducing GLUT1 expression, achieving a half-maximal inhibitory concentration (IC ₅₀) of 28.2 μM. Additionally, at a concentration of 79.9 μM over 24 hours, HDAC8-IN-3 can induce apoptotic death in CEM leukemia cells, as evidenced by a significant increase in the percentage of apoptotic cells to 60.97%. Cytotoxicity assays conducted with a fixed concentration of 50 μM for 48 hours on K562, KCL22, and CEM leukemia cell lines reported IC ₅₀ values of 79.9, 85.4, and 43.2 μM, respectively, thereby confirming the compound's effectiveness in inhibiting cell viability across various leukemia models.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5224 mL	12.6122 mL	25.2245 mL
5 mM	0.5045 mL	2.5224 mL	5.0449 mL
10 mM	0.2522 mL	1.2612 mL	2.5224 mL
50 mM	0.0504 mL	0.2522 mL	0.5045 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

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