Data Sheet (Cat.No.T212796)

TargetMol

HDAC-IN-98

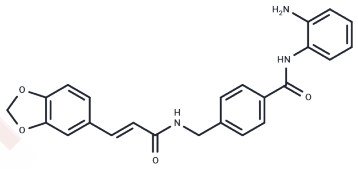
Chemical Properties

CAS No. :

Formula: C24H21N3O4

Molecular Weight: 415.44

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	HDAC-IN-98 is an inhibitor of HDAC1, HDAC2, and HDAC3, with IC_{50} values of 41.2 nM, 52.5 nM, and 74.3 nM, respectively. HDAC-IN-98 induces H3K9 acetylation, upregulates p21 expression, causes G2/M phase arrest, and induces apoptosis, making it suitable for research on epigenetic regulation in tumors.
Targets(IC50)	Apoptosis,HDAC,Autophagy
In vitro	HDAC-IN-98 (1-4 μM; 48 h) disrupts the cell cycle, induces subG1 accumulation leading to apoptosis in HCT116 cells, and causes G1 phase arrest in HT29/DLD1 cells. [1] HDAC-IN-98 (1 μM; in vitro pretreatment; 48 hours) demonstrated potent antitumor activity in a chicken embryo chorioallantoic (CAM) model of colorectal cancer, independent of p21 status. In the HCT116 p21 wild-type CAM model, HDAC-IN-98 was shown to significantly upregulate p21.[1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4071 mL	12.0354 mL	24.0709 mL
5 mM	0.4814 mL	2.4071 mL	4.8142 mL
10 mM	0.2407 mL	1.2035 mL	2.4071 mL
50 mM	0.0481 mL	0.2407 mL	0.4814 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

Carullo G, et al. Targeting Class I Histone Deacetylases Triggers Antitumor Responses in Colorectal Cancer In Vitro and In Vivo. J Med Chem. 2026;69(2):1049-1074.

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