

HDAC-IN-32

Chemical Properties

CAS No. :

Formula: C₂₀H₂₃N₃O₃

Molecular Weight: 353.41

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-32 is a highly effective HDAC inhibitor presenting IC ₅₀ values of 5.2, 11, and 28 nM for HDAC1, HDAC2, and HDAC6, respectively. This compound demonstrates notable anti-proliferative properties against tumor cells, as well as significant in vivo antitumor efficacy, which can elicit antitumor immunity [1].
Targets(IC ₅₀)	Others,HDAC
In vitro	HDAC-IN-32 (compound 9k) enhances Ac-HH3 and Ac-tubulin expression in tumor cells and induces apoptosis via caspase-3 cleavage. It decreases SSRP1 and SPT16 levels, leading to chromatin damage. Additionally, HDAC-IN-32 surpasses SAHA in inhibiting tumor migration by reducing MMP-2 expression, which is essential for tumor mobility [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8296 mL	14.1479 mL	28.2957 mL
5 mM	0.5659 mL	2.8296 mL	5.6591 mL
10 mM	0.283 mL	1.4148 mL	2.8296 mL
50 mM	0.0566 mL	0.283 mL	0.5659 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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