

HDAC-IN-88

Chemical Properties

CAS No. :

Formula: C₂₃H₃₆N₄O₄

Molecular Weight: 432.56

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-88 (Compound HJ-9) is a potent inhibitor of HDAC, effectively targeting HDAC6, HDAC1, HDAC2, HDAC8, and HDAC3 with IC ₅₀ values of 0.226, 1.103, 2.308, 3.255, and 3.864 μ M, respectively. This compound suppresses the proliferation of cancer cells HepG2, HCT116, and MV4-11 with IC ₅₀ values of 5.47, 9.78, and 0.38 μ M, respectively. Additionally, it inhibits the migration of HCT116 cells, causes cell cycle arrest at the G ₀ /G ₁ phase, and induces apoptosis and autophagy in MV4-11 cells. HDAC-IN-88 reduces ROS levels and mitochondrial membrane potential and demonstrates antimalarial activity by inhibiting Plasmodium falciparum 3D7 with an EC ₅₀ of 165 nM. Furthermore, HDAC-IN-88 exhibits anti-angiogenic properties.
Targets(IC ₅₀)	Apoptosis, Reactive Oxygen Species, Mitochondrial Metabolism, HDAC, Parasite, Autophagy, ROS

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3118 mL	11.5591 mL	23.1182 mL
5 mM	0.4624 mL	2.3118 mL	4.6236 mL
10 mM	0.2312 mL	1.1559 mL	2.3118 mL
50 mM	0.0462 mL	0.2312 mL	0.4624 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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