

HDAC-IN-30

Chemical Properties

CAS No. : 2756809-34-2

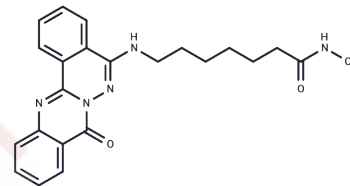
Formula: C₂₂H₂₃N₅O₃

Molecular Weight: 405.45

Keep away from moisture

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-30 is a multi-target HDAC inhibitor. HDAC-IN-30 inhibits HDAC1 (IC ₅₀ =13.4 nM), HDAC2 (IC ₅₀ =28.0 nM), HDAC3 (IC ₅₀ =9.18 nM), HDAC6 (IC ₅₀ =42.7 nM), HDAC8 (IC ₅₀ =131 nM). HDAC-IN-30 shows potent antitumor efficacy.
Targets(IC ₅₀)	HDAC
In vitro	HDAC-IN-30, referred to as compound 8 h at concentrations of 0.5, 1, and 2 μM for 48 hours, effectively activates the p53 pathway through enhanced phosphorylation of p53. At increased dosages (0, 1, 2.5, 5 mM; 48 hours) in HepG2 cells, it leads to a concentration-dependent cell cycle arrest at the G2 phase, demonstrating significant anticancer activity. Western Blot analysis confirms its role in p53 pathway activation by promoting p53 phosphorylation, whereas cell cycle and apoptosis analyses reveal its capability to induce G2 phase arrest and pronounce anticancer effects in HepG2 cells over a 48-hour period.
In vivo	HDAC-IN-30, administered via intraperitoneal injection at doses of 12 and 24 mg/kg every two days over a period of four weeks, demonstrated significant anticancer efficacy without adverse effects, even at the higher dosage of 24 mg/kg, in the HepG2 xenograft mouse model [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4664 mL	12.332 mL	24.664 mL
5 mM	0.4933 mL	2.4664 mL	4.9328 mL
10 mM	0.2466 mL	1.2332 mL	2.4664 mL
50 mM	0.0493 mL	0.2466 mL	0.4933 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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