

HDAC-IN-35

Chemical Properties

CAS No. :

Formula: C17H13ClF3N3O3

Molecular Weight: 399.75

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-35 (Compound 14) is a potent and selective inhibitor of VEGFR-2 and HDAC, exhibiting IC50 values of 13.2 μM for VEGFR-2 and 0.166 μM for HDAC6.
Targets(IC50)	Others,HDAC,VEGFR
In vitro	HDAC-IN-35 (Compound 14), at concentrations ranging from 0 to 10 μM over a period of 48 hours, demonstrates anticancer effects across various cancer cell lines, including A549, PC-3, and SK-Hep-1, with IC50 values of 3.4, 1.9, and 3.2 μM respectively. Additionally, this compound exhibits potent anti-angiogenic activity, achieving over 50% growth inhibition (GI>50) at a concentration of 1.0 μM in human endothelial progenitor cells (EPCs) by targeting the VEGFR-2 pathway, and without evident systemic toxicity. Moderate inhibition of VEGFR-2 and the blocking of HDAC enzyme activity are key mechanisms through which HDAC-IN-35 delivers its anticancer properties. Furthermore, it concentration-dependently disrupts capillary-like tube formation in EPCs after 24 hours of treatment. In vitro assays support these findings; a Western Blot analysis revealed an increase in acetylated α -tubulin and histone H3, indicating a concentration-dependent reaction in cancer cells, along with a mild inhibition of VEGFR-2 phosphorylation in human EPCs, showcasing the compound's multifaceted anticancer and anti-angiogenic activities.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5016 mL	12.5078 mL	25.0156 mL
5 mM	0.5003 mL	2.5016 mL	5.0031 mL
10 mM	0.2502 mL	1.2508 mL	2.5016 mL
50 mM	0.050 mL	0.2502 mL	0.5003 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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