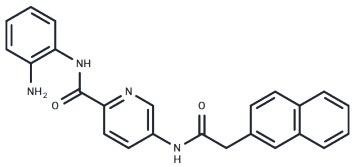
Data Sheet (Cat.No.T67878)

TargetMol
YOUR TARGET MOLECULES

HDAC-IN-52

Chemical Properties



CAS No. : 2075787-77-6

Formula: C24H20N4O2

Molecular Weight: 396.44

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	HDAC-IN-52 is a pyridine-containing HDAC inhibitor that inhibits HDAC1, HDAC2, HDAC3 and HDAC10 with IC50s of 0.189, 0.227, 0.440 and 0.446 μM, respectively. HDAC-IN-52 can be used in cancer research.
Targets(IC50)	HDAC
In vitro	HDAC-IN-52 (72 h) inhibited the proliferation of HCT116, A549 and K562 cells with IC50 values of 0.43, 1.28 and 0.37 μM, respectively.[1]. HDAC-IN-52 (1-5 μM ； 24-48 h) significantly induced cell death in leukemic U937 cells after 48 h, with 76% and 100% G1 prophase blockade, respectively.[1] HDAC-IN-52 (1-5 μM ； 48 h) increased mRNA expression of p21, BAX and BAK and downregulated cyclin D1 and BCL-2.[1]

Solubility Information

Solubility	DMSO: 25 mg/mL (63.06 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5224 mL	12.6122 mL	25.2245 mL
5 mM	0.5045 mL	2.5224 mL	5.0449 mL
10 mM	0.2522 mL	1.2612 mL	2.5224 mL
50 mM	0.0504 mL	0.2522 mL	0.5045 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.

Reference

Di Bello E, e t al. Novel pyridine-containing histone deacetylase inhibitors strongly arrest proliferation, induce apoptosis and modulate miRNAs in cancer cells. Eur J Med Chem. 2023 ; 247:115022.

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