Data Sheet (Cat.No.T11542)

TargetMol

HDAC-IN-4

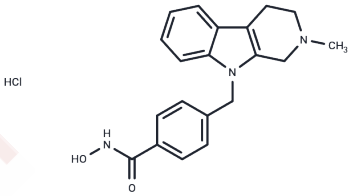
Chemical Properties

CAS No. : 1252003-13-6

Formula: C20H21N3O2

Molecular Weight: 335.4

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-4, a selective HDAC6 and HDAC10 inhibitor (pIC50s: 7.2 and 6.8 in the BRET assay), exhibits antitumoral activity.
Targets(IC50)	HDAC
In vitro	HDAC-IN-4 demonstrates superior potency over Tubastatin A in targeting HDAC6, indicating its potential as a more effective HDAC6 probe. Additionally, it exhibits inhibitory effects on HDAC1, HDAC2, HDAC3, HDAC8, and HDAC10, with respective pIC50 values of 5.5, 4.6, 5.4, 5.4, and 6.7 in FRET assays.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9815 mL	14.9076 mL	29.8151 mL
5 mM	0.5963 mL	2.9815 mL	5.963 mL
10 mM	0.2982 mL	1.4908 mL	2.9815 mL
50 mM	0.0596 mL	0.2982 mL	0.5963 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.

Reference

Géraldy M, et al. Selective Inhibition of Histone Deacetylase 10: Hydrogen Bonding to the Gatekeeper Residue is Implicated. J Med Chem. 2019 May 9;62(9):4426-4443.

Sun L, Zhang Y, Cai J, et al.Bile salt hydrolase in non-enterotoxigenic Bacteroides potentiates colorectal cancer. Nature Communications.2023, 14(1): 755.

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