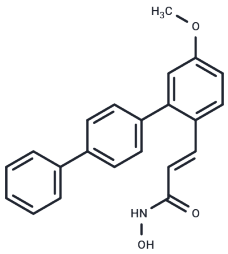
Data Sheet (Cat.No.T7082)

TargetMol

HDAC8-IN-1

Chemical Properties



CAS No. : 1417997-93-3

Formula: C22H19NO3

Molecular Weight: 345.39

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	MDK-7933 (HDAC8-IN-1) is a HDAC8 inhibitor with an IC50 of 27.2 nM in cancer cell lines. MDK-7933 shows antiproliferative effects toward several human lung cancer cell lines (A549, H1299, and CL1-5). HDAC8-IN-1 exhibits cytotoxicity against human lung CL1-5 cells without significant cytotoxicity for normal IMR-90 cells[1].
Targets(IC50)	HDAC

Solubility Information

Solubility	DMSO: 55 mg/mL (159.24 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (5.79 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8953 mL	14.4764 mL	28.9528 mL
5 mM	0.5791 mL	2.8953 mL	5.7906 mL
10 mM	0.2895 mL	1.4476 mL	2.8953 mL
50 mM	0.0579 mL	0.2895 mL	0.5791 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

Huang WJ, et al. Synthesis and biological evaluation of ortho-aryl N-hydroxycinnamides as potent histone deacetylase (HDAC) 8 isoform-selective inhibitors. ChemMedChem. 2012 Oct;7(10):1815-24.