Data Sheet (Cat.No.T79714)

TargetMol

HDAC3-IN-2

Chemical Properties

CAS No. :

Formula: C16H21N5O2

Molecular Weight: 315.37

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	HDAC3-IN-2 (compound 4i), a pyrazinyl hydrazide-based HDAC3 inhibitor with an IC50 of 14 nM, effectively targets triple-negative breast cancer cells. Demonstrating cytotoxic activity, HDAC3-IN-2 exhibits an IC50 of 0.55 μM against 4T1 cells and 0.74 μM against MDA-MB-231 cells. In vivo, it shows anti-tumor efficacy in tumor-bearing mouse models by selectively elevating acetylation of histones H3K9, H3K27, and H4K12, enhancing apoptosis-inducing proteins caspase-3, caspase-7, and cytochrome c, and diminishing proliferation markers Bcl-2, CD44, EGFR, and Ki-67 [1].
Targets(IC50)	Apoptosis,Histone Methyltransferase,Caspase,HDAC,DNA/RNA Synthesis

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1709 mL	15.8544 mL	31.7088 mL
5 mM	0.6342 mL	3.1709 mL	6.3418 mL
10 mM	0.3171 mL	1.5854 mL	3.1709 mL
50 mM	0.0634 mL	0.3171 mL	0.6342 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.

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