

PIM-1/HDAC-IN-1

Chemical Properties

CAS No. :

Formula: C₂₂H₁₉N₃O₃

Molecular Weight: 373.4

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	PIM-1/HDAC-IN-1 (compound 4d) is a potent PIM-1 inhibitor with an IC ₅₀ of 343.87 nM, and it exhibits strong inhibitory activity and selectivity against HDAC 1 and HDAC 6, with IC ₅₀ values of 63.65 and 62.39 nM, respectively. Additionally, it induces apoptosis and causes G2/M phase cell cycle arrest in MCF-7 cell lines, specifically inducing pre-G1 apoptosis [1].
Targets(IC ₅₀)	Apoptosis,Others,HDAC,Pim
In vitro	Compound 4d, known as PIM-1/HDAC-IN-1, exhibits potent antiproliferative effects on cancer cell lines, achieving growth inhibitory activity (GI ₅₀) at concentrations of 3 μM or lower, with the GI ₅₀ values ranging between 0.325 to 2.9 μM [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6781 mL	13.3905 mL	26.7809 mL
5 mM	0.5356 mL	2.6781 mL	5.3562 mL
10 mM	0.2678 mL	1.339 mL	2.6781 mL
50 mM	0.0536 mL	0.2678 mL	0.5356 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

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481