

HDAC-IN-73

Chemical Properties

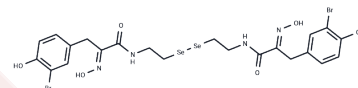
CAS No. : 2323571-16-8

Formula: C₂₂H₂₄Br₂N₄O₆Se₂

Molecular Weight: 758.18

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-73 (compound p-503), an effective HDAC inhibitor, exhibits IC ₅₀ values of 0.17 and 0.49 μ M for HDAC1 and HDAC6 respectively. This compound promotes apoptosis and arrests the cell cycle at the G ₂ /M phase. Additionally, HDAC-IN-73 demonstrates anti-tumor activity.
Targets(IC ₅₀)	Apoptosis,HDAC
In vitro	HDAC-IN-73 (compound p-503) at concentrations of 0-2 μ M over 24 hours enhances the protein expression of Ac- α -tubulin and Ac-H3 in HCT116 cells [1]. At concentrations of 0.1-0.4 μ M, HDAC-IN-73 can induce apoptosis and cause cell cycle arrest at the G ₂ /M phase [1].
In vivo	HDAC-IN-73 administered intraperitoneally at a dosage of 5 mg/kg every two days for 26 days effectively inhibits tumor growth in the HCT116 xenograft model [1]. Animal Model: 6-week-old female nude mice (BALB/c-nu) [1]. Dosage: 5 mg/kg Administration: I.p.; every 2 days for 26 days. Result: Achieved a significant tumor growth inhibition (TGI) of 74.6%.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.3189 mL	6.5947 mL	13.1895 mL
5 mM	0.2638 mL	1.3189 mL	2.6379 mL
10 mM	0.1319 mL	0.6595 mL	1.3189 mL
50 mM	0.0264 mL	0.1319 mL	0.2638 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

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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