

HDAC6-IN-45

Chemical Properties

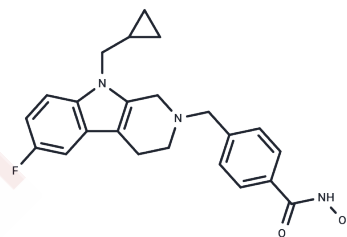
CAS No. : 3048532-05-1

Formula: C₂₃H₂₄FN₃O₂

Molecular Weight: 393.45

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	HDAC6-IN-45 (Compound 15) is a selective inhibitor of HDAC6, with an IC ₅₀ of 15.2 nM. It exerts neurotrophic effects by upregulating GAP43 and Beta-3 Tubulin markers. Additionally, HDAC6-IN-45 activates the Nrf2 signaling pathway, reduces H ₂ O ₂ -induced ROS production, and inhibits apoptosis in PC12 cells. In zebrafish models of Alzheimer's disease, it demonstrates neuroprotective properties. Moreover, HDAC6-IN-45 exhibits antioxidant activity and has favorable blood-brain barrier (BBB) permeability.
Targets(IC ₅₀)	Apoptosis, Reactive Oxygen Species, Nrf2, HDAC

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5416 mL	12.7081 mL	25.4162 mL
5 mM	0.5083 mL	2.5416 mL	5.0832 mL
10 mM	0.2542 mL	1.2708 mL	2.5416 mL
50 mM	0.0508 mL	0.2542 mL	0.5083 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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