

## NMDAR/HDAC-IN-1

## Chemical Properties

CAS No. :

Formula: C<sub>22</sub>H<sub>28</sub>N<sub>2</sub>O<sub>3</sub>

Molecular Weight: 368.47

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	NMDAR/HDAC-IN-1 (Compound 9d) is a potent dual inhibitor of N-methyl-D-aspartate receptors (NMDARs) and histone deacetylases (HDACs), with a high affinity for NMDARs (K <sub>i</sub> = 0.59 μM) and significant inhibitory effects on various HDAC isoforms, including HDAC1, HDAC2, HDAC3, HDAC6, and HDAC8 with IC <sub>50</sub> values of 2.67 μM, 8.00 μM, 2.21 μM, 0.18 μM, and 0.62 μM, respectively; additionally, it efficiently crosses the blood-brain barrier [1].
Targets(IC50)	Others,HDAC,iGluR
In vitro	NMDAR/HDAC-IN-1 (Compound 9d) enhances Actubulin levels in MV4-11 cells and mitigates H <sub>2</sub> O <sub>2</sub> -induced cytotoxicity in PC-12 cells, with an EC <sub>50</sub> of 0.94 μM [1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7139 mL	13.5696 mL	27.1393 mL
5 mM	0.5428 mL	2.7139 mL	5.4279 mL
10 mM	0.2714 mL	1.357 mL	2.7139 mL
50 mM	0.0543 mL	0.2714 mL	0.5428 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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