

## HDAC-IN-40

## Chemical Properties

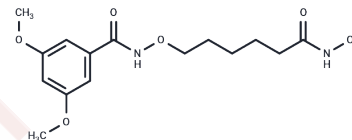
CAS No. : 2463198-51-6

Formula: C<sub>15</sub>H<sub>22</sub>N<sub>2</sub>O<sub>6</sub>

Molecular Weight: 326.35

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-40 is a potent alkoxyamide-based HDAC inhibitor with a $K_i$ of 60 nM for HDAC2 and 30 nM for HDAC6, exhibiting antitumor effects.
Targets(IC50)	HDAC
In vitro	HDAC-IN-40 shows antiproliferative activity against the cell line A2780 and Cal27 with IC50 values of 0.89 $\mu$ M and 0.72 $\mu$ M, respectively. HDAC-IN-40 induces accumulation of acetyl $\alpha$ -tubulin in Cal27 and Cal27CisR. HDAC-IN-40 enhances the Cisplatin-induced cytotoxicity via caspase-3/7 activation[1].

## Solubility Information

Solubility	DMSO: 200 mg/mL (612.84 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0642 mL	15.321 mL	30.6419 mL
5 mM	0.6128 mL	3.0642 mL	6.1284 mL
10 mM	0.3064 mL	1.5321 mL	3.0642 mL
50 mM	0.0613 mL	0.3064 mL	0.6128 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.

Reference

Yodita Asfaha, et al. Novel alkoxyamide-based histone deacetylase inhibitors reverse cisplatin resistance in chemoresistant cancer cells. Bioorg Med Chem. 2020 Jan 1;28(1):115108.

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