

MPI_5a

Chemical Properties

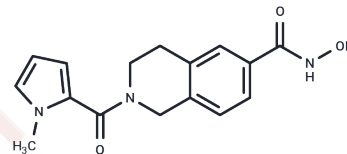
CAS No. : 1259296-46-2

Formula: C16H17N3O3

Molecular Weight: 299.32

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	MPI_5a is a small molecule inhibitor and a highly selective HDAC6 inhibitor (IC ₅₀ =36 nM). The IC ₅₀ value for MPI_5a inhibition of intracellular acetylated tubulin accumulation is 210 nM, used for HDAC6 function research.
Targets(IC ₅₀)	HDAC

Solubility Information

Solubility	DMSO: 247.5 mg/mL (826.87 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	3.3409 mL	16.7045 mL	33.4091 mL
5 mM	0.6682 mL	3.3409 mL	6.6818 mL
10 mM	0.3341 mL	1.6705 mL	3.3409 mL
50 mM	0.0668 mL	0.3341 mL	0.6682 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

Blackburn C, et al. Potent histone deacetylase inhibitors derived from 4-(aminomethyl)-N-hydroxybenzamide with high selectivity for the HDAC6 isoform. J Med Chem. 2013 Sep 26;56(18):7201-11.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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