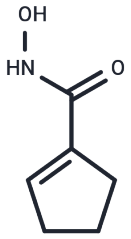
Data Sheet (Cat.No.T25175)

TargetMol

BRD 9757

Chemical Properties



CAS No. : 1423058-85-8

Formula: C6H9NO2

Molecular Weight: 127.14

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	BRD 9757 (N-Hydroxy-1-cyclopentene-1-carboxamide) is a selective inhibitor of HDAC6 (IC50 = 30 nM).
Targets(IC50)	HDAC
In vitro	The IC50s are 0.638 μM, 1.79 μM, 0.694 μM, 21.80 μM, 18.32 μM, 12.61 μM, 1.09 μM and >33.33 μM, respectively for HDAC1, HDAC2, HDAC3, HDAC4, HDAC5, HDAC7, HDAC8 and HDAC9. BRD 9757 (10-30 μM) selectively increases Ac-tubulin levels without affecting histone acetylation[1].

Solubility Information

Solubility	DMSO: < 1.27 mg/mL (10 mM, insoluble or slightly soluble) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	7.8653 mL	39.3267 mL	78.6535 mL
5 mM	1.5731 mL	7.8653 mL	15.7307 mL
10 mM	0.7865 mL	3.9327 mL	7.8653 mL
50 mM	0.1573 mL	0.7865 mL	1.5731 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

Wagner et al (2013) Potent and selective inhibition of histone deacetylase 6 (HDAC6) does not require a surface-binding motif. J.Med.Chem. 56 1772

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