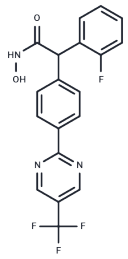
Data Sheet (Cat.No.T14947)

TargetMol

CHDI-390576

Chemical Properties



CAS No. : 1629729-98-1

Formula: C19H13F4N3O2

Molecular Weight: 391.32

Storage: Store at low temperature
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	CHDI-390576 is a CNS-permeable, selective and potent dibenzoyl isohydroxamic acid class IIa histone deacetylase (HDAC) inhibitor that inhibits class IIa HDAC 4, HDAC 5, HDAC 7, HDAC 9, and can be used in cancer research.
Targets(IC50)	HDAC
In vitro	CHDI-390576 exhibits good affinity to the catalytic domain of HDAC4, and it inhibits class I HDACs (1, 3, 8) and class IIb HDAC6[1].

Solubility Information

Solubility	DMSO: 200 mg/mL (511.09 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 5 mg/mL (12.78 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5555 mL	12.7773 mL	25.5545 mL
5 mM	0.5111 mL	2.5555 mL	5.1109 mL
10 mM	0.2555 mL	1.2777 mL	2.5555 mL
50 mM	0.0511 mL	0.2555 mL	0.5111 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

Luckhurst CA, et al. Development and characterization of a CNS-penetrant benzhydryl hydroxamic acid class IIa histone deacetylase inhibitor. Bioorg Med Chem Lett. 2019 Jan 1;29(1):83-88.

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