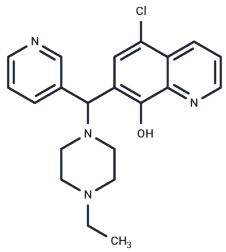
Data Sheet (Cat.No.T10602L)

TargetMol

BRD 4354

Chemical Properties



CAS No. : 315698-07-8

Formula: C21H23ClN4O

Molecular Weight: 382.89

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 4354 is an inhibitor of HDAC5 and HDAC9. For HDAC5 and HDAC9, the IC50s values are 0.85 and 1.88 μM, respectively.
Targets(IC50)	HDAC
In vitro	BRD 4354 also inhibits HDACs 4, 6, 7, and 8 at higher concentrations (3.88-13.8 μM) but demonstrates less of an inhibitory effect on other class I HDACs 1, 2, and 3 (IC50>40 μM) [1]. BRD 4354 is a moderately potent inhibitor of HDAC5 and HDAC9, with BRD4354 having half-maximum inhibitory concentrations (IC50) of 0.85 μM and 1.88 μM, respectively.

Solubility Information

Solubility	DMSO: 10 mg/mL (26.12 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: 1 mg/mL (2.61 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	2.6117 mL	13.0586 mL	26.1172 mL
5 mM	0.5223 mL	2.6117 mL	5.2234 mL
10 mM	0.2612 mL	1.3059 mL	2.6117 mL
50 mM	0.0522 mL	0.2612 mL	0.5223 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

Boskovic ZV, ET AL. Inhibition of Zinc-Dependent Histone Deacetylases with a Chemically Triggered Electrophile. ACS Chem Biol. 2016 Jul 15;11(7):1844-51.