

BRD 4354 ditrifluoroacetate

Chemical Properties

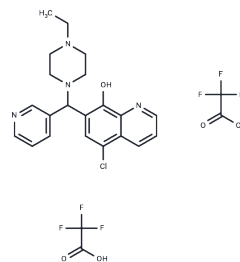
CAS No. :

Formula: C₂₅H₂₅ClF₆N₄O₅

Molecular Weight: 610.93

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 (ditrifluoroacetate) is a moderately potent inhibitor of HDAC5 and HDAC9 with IC ₅₀ values of 0.85 μM and 1.88 μM, respectively.
Targets(IC ₅₀)	HDAC

Solubility Information

Solubility	DMSO: 125 mg/mL (204.61 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: 3.3 mg/mL (5.4 mM), Sonication is recommended. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6368 mL	8.1842 mL	16.3685 mL
5 mM	0.3274 mL	1.6368 mL	3.2737 mL
10 mM	0.1637 mL	0.8184 mL	1.6368 mL
50 mM	0.0327 mL	0.1637 mL	0.3274 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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