

BRD73954

Chemical Properties

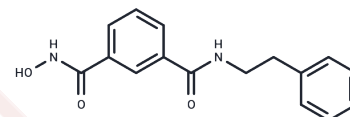
CAS No. : 1440209-96-0

Formula: C₁₆H₁₆N₂O₃

Molecular Weight: 284.31

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	BRD73954, an effective and specific HDAC inhibitor, which is with IC ₅₀ of 36 nM and 120 nM for HDAC6 and HDAC8, respectively.
Targets(IC ₅₀)	HDAC
In vitro	As compared to the other class I and II histone deacetylases (HDACs) (HDAC1, 12 μM; HDAC2, 9 μM; HDAC3, 23 μM; HDAC4, >33 μM; HDAC5, >33 μM; HDAC7, 13 μM; HDAC8, 120 nM; HDAC9, >33 μM), BRD73954 maintains excellent selectivity toward HDAC6 and HDAC8 with IC ₅₀ of 36 nM and 120 nM, respectively. Treatment with BRD73954 results in a robust increase in α-tubulin acetylation. [1]

Solubility Information

Solubility	Ethanol: 5.7 mg/mL (20.05 mM), Heating is recommended. DMSO: 16.67 mg/mL (58.63 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: 2 mg/mL (7.03 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	3.5173 mL	17.5864 mL	35.1729 mL
5 mM	0.7035 mL	3.5173 mL	7.0346 mL
10 mM	0.3517 mL	1.7586 mL	3.5173 mL
50 mM	0.0703 mL	0.3517 mL	0.7035 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

Olson DE, et al. J Med Chem. 2013, 56(11):4816-4820.

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