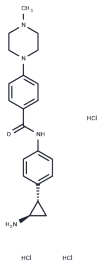


DDP-38003 trihydrochloride

Chemical Properties

CAS No. :
Formula: C₂₁H₂₉Cl₃N₄O
Molecular Weight: 459.84
Appearance: no data available
Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	DDP-38003 trihydrochloride is a novel, orally available histone lysine-specific demethylase 1A (KDM1A/LSD1) inhibitor with an IC ₅₀ of 84 nM.
Targets(IC ₅₀)	Others
In vitro	DDP-38003 inhibits KDM1A with an IC ₅₀ of 84 nM. It is more effective in reducing colony-forming ability and inducing differentiation of THP-1 cells compared to the 1R, 2S analogue [1].
In vivo	DDP-38003 demonstrates effectiveness in vivo upon oral administration, leading to a 62% increase in survival rates in mouse leukemia models via KDM1A inhibition. It has a half-life of 8 hours. A notable dose-dependent enhancement in survival rates of mice treated with DDP-38003 is observed, with survival rates escalating by 35% and 62% at doses of 11.25 and 22.50 mg/kg, respectively, showcasing its potential as a cancer therapeutic [1].

Solubility Information

Solubility	DMSO: 100 mg/mL (217.47 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1747 mL	10.8733 mL	21.7467 mL
5 mM	0.4349 mL	2.1747 mL	4.3493 mL
10 mM	0.2175 mL	1.0873 mL	2.1747 mL
50 mM	0.0435 mL	0.2175 mL	0.4349 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.

Reference

Vianello P, et al. Discovery of a Novel Inhibitor of Histone Lysine-Specific Demethylase 1A (KDM1A/LSD1) as Orally Active Antitumor Agent. J Med Chem. 2016 Feb 25;59(4):1501-17.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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