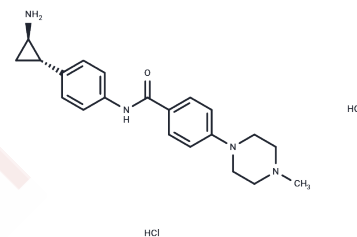


DDP-38003 dihydrochloride

Chemical Properties

CAS No. : 1831167-98-6
 Formula: C₂₁H₂₈Cl₂N₄O
 Molecular Weight: 423.38
 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	DDP-38003 dihydrochloride is an orally available histone lysine-specific demethylase 1A (KDM1A/LSD1) inhibitor (IC ₅₀ : 84 nM).
Targets(IC ₅₀)	Histone Demethylase
In vitro	DDP-38003 is more active in reducing the colony forming ability and in inducing the differentiation of THP-1 cells compared to the 1R, 2S analogue. DDP-38003 inhibits KDM1A (IC ₅₀ : 84 nM) [1].
In vivo	DDP-38003, an oral anticancer candidate, possesses a half-life of 8 hours and demonstrates in vivo efficacy, resulting in a 62% survival increase in mouse leukemia models through KDM1A inhibition. The treatment's efficacy is dose-dependent, with survival rates augmenting by 35% and 62% at doses of 11.25 mg/kg and 22.50 mg/kg, respectively[1].

Solubility Information

Solubility	DMSO: 10 mg/mL (23.62 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	2.3619 mL	11.8097 mL	23.6194 mL
5 mM	0.4724 mL	2.3619 mL	4.7239 mL
10 mM	0.2362 mL	1.181 mL	2.3619 mL
50 mM	0.0472 mL	0.2362 mL	0.4724 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

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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