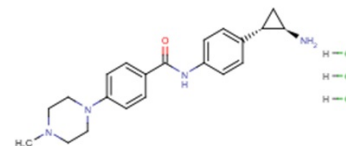


DDP-38003 trihydrochloride

Chemical Properties

CAS No.:	T10983
Formula:	C ₂₁ H ₂₉ Cl ₃ N ₄ O
Molecular Weight:	459.84
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

**Biological Description**

Description	DDP-38003 trihydrochloride is a novel, orally available histone lysine specific demethylase 1A (KDM1A / LSD1) inhibitor with IC ₅₀ of 84 nM.
Targets(IC ₅₀)	KDM1A/LSD1: 84 nM
In vitro	DDP-38003 is more active in reducing colony-forming ability and inducing THP-1 cell differentiation compared with 1R, 2S analogs. Inhibition of KDM1A with IC ₅₀ of 84 nM.
In vivo	DDP-38003 showed in vivo efficacy after oral administration, and it was determined that the survival rate of the mouse leukemia model with KDM1A inhibition increased by 62%. The half-life of DDP-38003 is 8 hours. Through DDP-38003 treatment, the survival rate of mice was significantly improved, and it was dose-dependent. At doses of 11.25 and 22.50 mg / kg, survival rates increased by 35% and 62%, respectively. DDP-38003 is a potential oral anti-cancer drug.

Solubility Information

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

	1mg	5mg	10mg
1 mM	2.175 mL	10.873 mL	21.747 mL
5 mM	0.435 mL	2.175 mL	4.349 mL
10 mM	0.217 mL	1.087 mL	2.175 mL
50 mM	0.043 mL	0.217 mL	0.435 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. 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.

Inhibitors · Natural Compounds · Compound Libraries

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