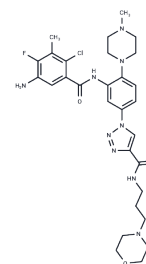


DDO-2093

Chemical Properties

CAS No. : 2250024-74-7
 Formula: C₂₉H₃₇ClFN₉O₃
 Molecular Weight: 614.12
 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	DDO-2093, a powerful inhibitor of the MLL1-WDR5 protein-protein interaction (IC ₅₀ = 8.6 nM; K _d = 11.6 nM), exhibits prominent antitumor effects. Notably, DDO-2093 selectively hampers the catalytic activity of the MLL complex.
Targets(IC ₅₀)	Others,Histone Methyltransferase
In vitro	DDO-2093 (5 μM; pretreated 7 days) suppresses the expression of MLL-fusion protein dependent genes (HOXA9 and Meis1)[1]. Western Blot Analysis[1] on MV4-11 cells treated at 1, 2.5, 5, and 10 μM for 7 days shows a dose-dependent decrease in the mono-, di-, and trimethylation of H3K4.
In vivo	DDO-2093, administered intraperitoneally (i.p.) at doses ranging from 20 mg/kg to 80 mg/kg every other day for a duration of 21 days, significantly reduced both the size and weight of tumors in a dose-dependent manner in female nude mice bearing MV4-11 human leukemia cancer xenografts. Specifically, tumor volume growth inhibition (GI) values were observed to increase with higher doses, measuring 13.7% for 20 mg/kg, 37.6% for 40 mg/kg, and 63.9% for 80 mg/kg, respectively.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6283 mL	8.1417 mL	16.2835 mL
5 mM	0.3257 mL	1.6283 mL	3.2567 mL
10 mM	0.1628 mL	0.8142 mL	1.6283 mL
50 mM	0.0326 mL	0.1628 mL	0.3257 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

Chen W, et al. Discovery of a potent MLL1 and WDR5 protein-protein interaction inhibitor with in vivo antitumor activity [published online ahead of print, 2021 Jun 28]. Eur J Med Chem. 2021;223:113677.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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