
Product Data Sheet

Product Name: DDO-2093 dihydrochloride

Cat. No.: GC67863

Chemical Properties

Cas. No.

Formula $C_{29}H_{39}Cl_3FN_9O_3$

M.Wt

687.04

Solubility

Storage

Store at -20°C

General tips

For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure

Background

DDO-2093 dihydrochloride is a potent **MLL1-WDR5 protein-protein interaction** inhibitor (**IC₅₀**=8.6 nM; **K_d**=11.6 nM) with antitumor activity. DDO-2093 dihydrochloride selectively inhibits the catalytic activity of MLL complex^[1].

DDO-2093 (5 μM; pretreated 7 days) dihydrochloride inhibits MLL-fusion protein dependent genes expression (*HOXA9* and *Meis1*)^[1].

Western Blot Analysis^[1]

Cell Line: MV4-11 cells

Concentration: 1, 2.5, 5, and 10 μM

Incubation Time: 7 days

Result: Dose-dependently reduced the mono-, di-, and trimethylation of H3K4.

Caution: Product has not been fully validated for medical applications. For research use only.

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DDO-2093 (20-80 mg/kg; i.p.; every other day for 21 days) dihydrochloride significantly suppresses the tumor size and weight in a dose-dependent manner^[1].

Animal Model: Female nude mice (MV4-11 human leukemia cancer xenografts)^[1]

Dosage: 20, 40, and 80 mg/kg

Administration: Intraperitoneal injection; every other day for 21 days

Result: Had the tumor volume growth inhibition (GI) values were calculated to be 13.7%, 37.6% and 63.9% with doses of 20 mg/kg, 40 mg/kg and 80 mg/kg, respectively.

[1]. 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.

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