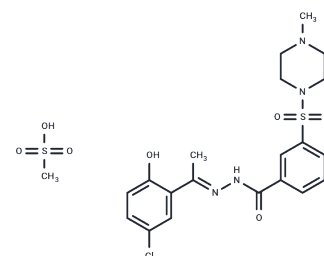


Seclidemstat mesylate

Chemical Properties

CAS No. :	2044953-70-8
Formula:	C ₂₁ H ₂₇ ClN ₄ O ₇ S ₂
Molecular Weight:	547.04
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Seclidemstat mesylate (SP-2577) is a highly effective and reversible inhibitor of KDM1A (LSD1), with a K_i of 31 nM and an IC ₅₀ of 13 nM. It demonstrates significant potential in promoting antitumor immunity in switch/sucrose nonfermentable (SWI/SNF) complex mutated ovarian cancer, while also exhibiting inhibitory effects on virus production, viral DNA replication, and late gene expression. Seclidemstat mesylate is a valuable tool for studying Ewing Sarcoma in research settings.
In vitro	Seclidemstat mesylate, over a period of 72 hours, effectively inhibits the proliferation of various tumor cells with mutations in the SWI/SNF complex, achieving an IC ₅₀ range of 0.013 to 2.819 μ M across multiple cell lines (COV434, BIN67, SCCOHT-1, TOV21G, SKOV3, A427, H522, A549, H1299, G401, G402, HCC15). Additionally, it enhances the expression and activation of endogenous retroviruses (ERVs) and the IFN β signaling pathway specifically in SCCOHT cell lines (SCCOHT-1, BIN67, and COV434). At a concentration of 3 μ M, Seclidemstat mesylate also upregulates PD-L1 expression in the SCCOHT COV 434 pIND 20 BRG1-2.7 cell line.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.828 mL	9.1401 mL	18.2802 mL
5 mM	0.3656 mL	1.828 mL	3.656 mL
10 mM	0.1828 mL	0.914 mL	1.828 mL
50 mM	0.0366 mL	0.1828 mL	0.3656 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

Dai XJ, et al. Reversible Lysine Specific Demethylase 1 (LSD1) Inhibitors: A Promising Wrench to Impair LSD1 [published correction appears in J Med Chem. 2021 May 13;64(9):6410-6411]. J Med Chem. 2021;64(5):2466-2488.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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