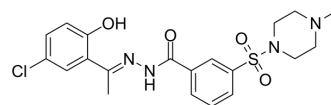


## Seclidemstat

Cat. No.:	HY-103713		
CAS No.:	1423715-37-0		
Molecular Formula:	C <sub>20</sub> H <sub>23</sub> ClN <sub>4</sub> O <sub>4</sub> S		
Molecular Weight:	450.94		
Target:	Histone Demethylase		
Pathway:	Epigenetics		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (221.76 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.2176 mL	11.0879 mL	22.1759 mL
		5 mM	0.4435 mL	2.2176 mL	4.4352 mL
		10 mM	0.2218 mL	1.1088 mL	2.2176 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 2.08 mg/mL (4.61 mM); Clear solution</li> <li>Add each solvent one by one: 1.6% DMA &gt;&gt; 5% Ethanol &gt;&gt; 45% PEG400 &gt;&gt; 48.4% PBS Solubility: 2 mg/mL (4.44 mM); Clear solution; Need ultrasonic and warming and heat to 60°C</li> </ol>				

### BIOLOGICAL ACTIVITY

Description	Seclidemstat is a potent noncompetitive and reversible KDM1A (LSD1) inhibitor (K <sub>i</sub> =31 nM, IC <sub>50</sub> =13 nM). Seclidemstat promotes antitumor immunity in switch/sucrose nonfermentable (SWI/SNF) complex mutated ovarian cancer, as well as inhibit virus production, viral DNA replication, and late gene expression. Seclidemstat can be used for the research of Ewing Sarcoma <sup>[1][2]</sup> .
IC <sub>50</sub> & Target	Ki: 31 nM (LSD1) <sup>[1]</sup> IC50: 13 nM (LSD1) <sup>[1]</sup>
In Vitro	Seclidemstat (72 hours) inhibits SWI/SNF-mutation-dependent tumor cell proliferation with IC <sub>50</sub> ranging from 0.013 to 2.819 μM (COV434, BIN67, SSCOHT-1, TOV21G, SKOV3, A427, H522, A549, H1299, G401, G402, HCC15 cells) <sup>[2]</sup> .

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Seclidemstat (72 hours) promotes endogenous retroviruses (ERVs) expression and activation of IFN $\beta$  pathway in SCCOHT cell lines (SCCOHT-1, BIN67, and COV434 cells)<sup>[2]</sup>.

Seclidemstat (3  $\mu$ M) promotes PD-L1 expression in SCCOHT COV 434 pIND 20 BRG1-2.7 cell line<sup>[2]</sup>.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## CUSTOMER VALIDATION

- Nat Cell Biol. 2022 Feb 17.
- ACS Pharmacol Transl Sci. November 12, 2021.
- bioRxiv. 2020 May.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

## REFERENCES

[1]. 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.

[2]. Soldi R, et al. The novel reversible LSD1 inhibitor SP-2577 promotes anti-tumor immunity in SWI/SNF complex mutated ovarian cancer. PLoS One. 2020;15(7):e0235705. Published 2020 Jul 10.

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

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