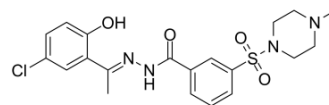


## Seclidemstat

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)  
 H<sub>2</sub>O : < 0.1 mg/mL (insoluble)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	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

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
 Solubility: ≥ 2.5 mg/mL (5.54 mM); Clear solution

### BIOLOGICAL ACTIVITY

Description	Seclidemstat (SP-2577) is a potent and orally bioavailable LSD1 inhibitor, with a mean IC <sub>50</sub> of 127 nM <sup>[1]</sup> .
IC <sub>50</sub> & Target	IC <sub>50</sub> : 127 nM (LSD1) <sup>[1]</sup>
In Vivo	Seclidemstat (Compound 2577) reduces tumor volume at 40, 80 mg/kg by i.p. and also shows such effect at 80 mg/kg via p.o. dosing.

### CUSTOMER VALIDATION

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- bioRxiv. 2020 May.

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

## REFERENCES

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[1]. SUBSTITUTED BENZOHYDRAZIDE ANALOGS AS HISTONE DEMETHYLASE INHIBITORS. WO/2017/004519 A1

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

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