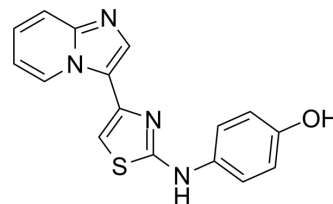


## JNJ-1289

Cat. No.:	HY-151115		
CAS No.:	792898-18-1		
Molecular Formula:	C <sub>16</sub> H <sub>12</sub> N <sub>4</sub> OS		
Molecular Weight:	308.36		
Target:	Others		
Pathway:	Others		
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 (324.30 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
Preparing Stock Solutions	1 mM	3.2430 mL	16.2148 mL	32.4296 mL
	5 mM	0.6486 mL	3.2430 mL	6.4859 mL
	10 mM	0.3243 mL	1.6215 mL	3.2430 mL
Please refer to the solubility information to select the appropriate solvent.				
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (8.11 mM); Clear solution; Need ultrasonic			

### BIOLOGICAL ACTIVITY

Description	JNJ-1289 is a potent, selective, competitive and allosteric human spermine oxidase (hSMOX) inhibitor (IC <sub>50</sub> : 50 nM). JNJ-1289 can be used in the research of polyamine catabolism, inflammation and cancers <sup>[1]</sup> .
IC <sub>50</sub> & Target	IC <sub>50</sub> : 50 nM (hSMOX) <sup>[1]</sup> ; >2 μM (hPAOX and LSD1) <sup>[1]</sup> .
In Vitro	JNJ-1289 (0.1 nM-1 μM, 0 and 2 h) inhibits hSMOX activity in a time-dependent manner <sup>[1]</sup> . JNJ-1289 initially forms a weak complex with hSMOX with an apparent K <sub>i</sub> value of 1.4 μM, followed by a relatively slow protein isomerization that forms the final tightly bound inhibitor-enzyme complex <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

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[1]. Elsie Diaz, et al. B Structure of human spermine oxidase in complex with a highly selective allosteric inhibitor. Commun Biol. 2022 Aug 5;5(1):787.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA