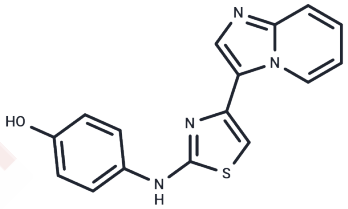
Data Sheet (Cat.No.T60738)

TargetMol

JNJ-1289

Chemical Properties



CAS No. :	792898-18-1
Formula:	C16H12N4OS
Molecular Weight:	308.36
Storage:	Store at low temperature Powder: -20°C for 3 years | In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.

Biological Description

Description	JNJ-1289 is a selective, potent, and competitive inhibitor of human spermine oxidase (hSMOX) with an IC50 value of 50 nM.JNJ-1289 has potential anticancer and anti-inflammatory activity for the study of polyamine catabolic disorders.
Targets(IC50)	Others,Smo
In vitro	In a time-dependent manner, JNJ-1289 inhibits hSMOX activity, with assessments at 0 and 2 hours[1]. Initially, JNJ-1289 forms a weak complex with hSMOX, characterized by an apparent Ki value of 1.4 μM. Subsequently, a relatively slow protein isomerization occurs, leading to the formation of the final tightly bound inhibitor-enzyme complex[1].

Solubility Information

Solubility	DMSO: 50 mg/mL (162.15 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 2.5 mg/mL (8.11 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.243 mL	16.2148 mL	32.4296 mL
5 mM	0.6486 mL	3.243 mL	6.4859 mL
10 mM	0.3243 mL	1.6215 mL	3.243 mL
50 mM	0.0649 mL	0.3243 mL	0.6486 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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.