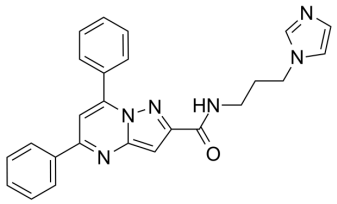
JNJ-9350

Cat. No.:	HY-Q36392
CAS No.:	326923-09-5
Molecular Formula:	$C_{25}H_{22}N_6O$
Molecular Weight:	422.48
Target:	Histone Demethylase
Pathway:	Epigenetics
Storage:	Powder -20°C 3 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 5 mg/mL (11.83 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.3670 mL	11.8349 mL	23.6698 mL
	5 mM	0.4734 mL	2.3670 mL	4.7340 mL
	10 mM	0.2367 mL	1.1835 mL	2.3670 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: ≥ 0.5 mg/mL (1.18 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 0.5 mg/mL (1.18 mM); Suspended solution; Need ultrasonic
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 0.5 mg/mL (1.18 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

JNJ-9350 is an inhibitor of spermine oxidase (SMOX) with an IC_{50} value of 0.01 μM. JNJ-9350 also inhibits polyamine oxidase (PAO) with an IC_{50} value of 0.79 μM. JNJ-9350 can be used for the research of cancer[1].

IC_{50} & Target

IC50: 10 nM (SMOX), 790 nM (PAO), ⊠60 μM (LSD1)[1]

In Vitro

JNJ-9350 (0-100 μM) shows inhibitory effect to SMOX, PAO and LSD1 with IC_{50} values of 10 nM, 790 nM and ⊠60 μM, respectively[1].
JNJ-9350 (1.1-70 μM) binds with SMOX with a K_i value of 9.9 nM [1].

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

In Vivo

Pharmacokinetic Properties of JNJ-9350 in Mice [1].

	Mice PO 10 mg/kg
Clearance (mL/min/kg) (Total/Unbound)	73/5217
Volume of distribution (L/kg)	1.7
Half-life (min)	16
PPB (Mouse)	98.6%
Oral F%	34%

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

REFERENCES

[1]. SMOx PROBE PROPOSAL

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