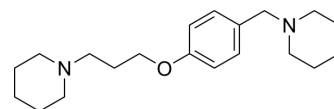


JNJ-5207852

Cat. No.:	HY-12190		
CAS No.:	398473-34-2		
Molecular Formula:	C ₂₀ H ₃₂ N ₂ O		
Molecular Weight:	316.48		
Target:	Histamine Receptor		
Pathway:	GPCR/G Protein; Immunology/Inflammation; Neuronal Signaling		
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 : 77.5 mg/mL (244.88 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	3.1598 mL	15.7988 mL	31.5976 mL
		5 mM	0.6320 mL	3.1598 mL	6.3195 mL
10 mM		0.3160 mL	1.5799 mL	3.1598 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.58 mg/mL (8.15 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.58 mg/mL (8.15 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.58 mg/mL (8.15 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	JNJ-5207852 is a selective and potent histamine H ₃ receptor (H ₃ R) antagonist, with pK _i s of 8.9, 9.24 for rat and human H ₃ R, respectively.	
IC₅₀ & Target	H ₃ receptor 8.9 (pK _i , for rat)	H ₃ receptor 9.24 (pK _i , for human)
In Vivo	JNJ-5207852 (1-10mg/kg s.c.) increases time spent awake and decreases REM sleep and slow-wave sleep, but fails to have	

an effect on wakefulness or sleep in H₃ receptor knockout mice. The wake promoting effects of this H₃ receptor antagonist are not associated with hypermotility. A 4-week daily treatment of mice with JNJ-5207852 (10 mg/kg i.p.) does not lead to a change in body weight. JNJ-5207852 is extensively absorbed after oral administration and reaches high brain levels^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Male, Sprague-Dawley rats weighing 282-334 g ^[1] .
Dosage:	3, 10, 30 mg/kg.
Administration:	S.C.
Result:	Increased time spent awake and decreased REM sleep and slow-wave sleep.

REFERENCES

- [1]. Barbier AJ, et al. Acute wake-promoting actions of JNJ-5207852, a novel, diamine-based H₃ antagonist. *Br J Pharmacol.* 2004 Nov;143(5):649-61.
- [2]. Abuhamdah RM, et al. Effects of methimepip and JNJ-5207852 in Wistar rats exposed to an open-field with and without object and in Balb/c mice exposed to a radial-arm maze. *Front Syst Neurosci.* 2012 Jul 16;6:54.

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

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