JNJ-5207852 dihydrochloride

Cat. No.: HY-12190A

CAS No.: 1782228-76-5

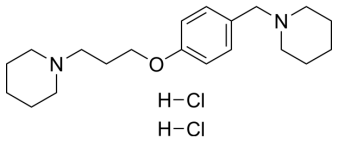
Molecular Formula: $C_{20}H_{34}Cl_2N_2O$

Molecular Weight: 389.4

Target: Histamine Receptor

Pathway: GPCR/G Protein; Immunology/Inflammation; Neuronal Signaling

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	JNJ-5207852 dihydrochloride is a selective and potent histamine H_3 receptor (H_3R) antagonist, with pK_is of 8.9, 9.24 for rat and human H_3R, respectively.	
IC_{50} & Target	H_3 Receptor 8.9 (pKi, for rat)	H_3 Receptor 9.24 (pKi, 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 H_3 receptor knockout mice. The wake promoting effects of this H_3 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:	Iincreased 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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