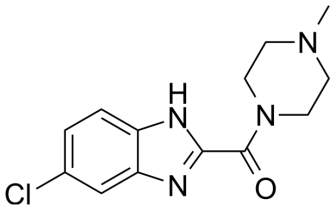
JNJ10191584

Cat. No.:	HY-123532
CAS No.:	73903-17-0
Molecular Formula:	$C_{13}H_{15}ClN_4O$
Molecular Weight:	278.74
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	JNJ10191584 (VUF6002) is an orally active and selective histamine H_4 receptor antagonist with a K_i value of 26 nM. JNJ10191584 shows 540-fold selectivity to H_4 receptor over H_3 receptor with a K_i value of 14.1 μM. JNJ10191584 inhibits chemotaxis of eosinophils and mast cells with IC_{50} values of 530 nM and 138 nM, respectively[1][2].	
IC_{50} & Target	Human H_4 Receptor 26 nM (Ki)	human H_3 receptor 14.1 μM (Ki)
In Vitro	JNJ10191584 shows binding affinity of 26 nM and 14.1 μM to H_4 and H_3 receptor, respectively[1]. JNJ10191584 (3 h) shows inhibitory effects to chemotaxis of eosinophils and mast cells with IC_{50} values of 530 nM and 138 nM, respectively[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
In Vivo	JNJ10191584 (10 μg/μL; intra locus coeruleus (LC) administration; once) abolishs VUF-induced anti-allodynic effect in spared nerve injury (SNI) mice[1]. JNJ10191584 (10 μg/μL; intra LC administration; once) prevents the anti-allodynic effect of VUF 8430 in SNI mice[1]. JNJ10191584 (6 μg/mouse; intrathecal administration; pretreat once) prevents VUF 8430-induced anti-allodynic effect in SNI mice[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

REFERENCES

[1]. Venable JD, et al. Preparation and biological evaluation of indole, benzimidazole, and thienopyrrole piperazine carboxamides: potent human histamine h(4) antagonists. J Med Chem. 2005 Dec 29;48(26):8289-98.

[2]. Sanna MD, et al. Histamine H4 receptor stimulation in the locus coeruleus attenuates neuropathic pain by promoting the coeruleospinal noradrenergic inhibitory pathway. Eur J Pharmacol. 2020 Feb 5;868:172859.

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

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