# JNJ10191584 maleate

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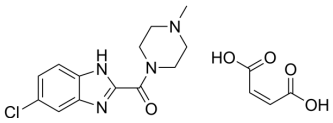
| **Cat. No.:** | HY-107558 |
| **CAS No.:** | 869497-75-6 |
| **Molecular Formula:** | $C_{17}H_{19}ClN_4O_5$ |
| **Molecular Weight:** | 394.81 |
| **Target:** | Histamine Receptor |
| **Pathway:** | GPCR/G Protein; Immunology/Inflammation; Neuronal Signaling |
| **Storage:** | Please store the product under the recommended conditions in the Certificate of Analysis. |



## BIOLOGICAL ACTIVITY

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| **Description** | JNJ10191584 (VUF6002) maleate (compound 40) is an orally active and selective histamine $H_4$ receptor antagonist with a $K_i$ value of 26 nM. JNJ10191584 maleate shows 540-fold selectivity to $H_4$ receptor over the $H_3$ receptor with a $K_i$ value of 14.1 μM. JNJ10191584 maleate 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<br>26 nM (Ki) | human $H_3$ receptor<br>14.1 μM (Ki) |
| **In Vitro** | JNJ10191584 maleate shows binding affinity of 26 nM and 14.1 μM to $H_4$ and $H_3$ receptor, respectively[1].<br>JNJ10191584 maleate (3 h) shows inhibitory effects to chemotaxis of eosinophils and mast cells with $IC_{50}$ values of 530 nM and 138 nM, respectively[1].<br>MCE has not independently confirmed the accuracy of these methods. They are for reference only. | |
| **In Vivo** | JNJ10191584 maleate (10 μg/μL; intra locus coeruleus (LC) administration; once) abolishs VUF-induced anti-allodynic effect in spared nerve injury (SNI) mice[1].<br>JNJ10191584 maleate (10 μg/μL; intra LC administration; once) prevents the anti-allodynic effect of VUF 8430 in SNI mice[1].<br>JNJ10191584 maleate (6 μg/mouse; intrathecal administration; pretreat once) prevents VUF 8430-induced anti-allodynic effect in SNI mice[1].<br>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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