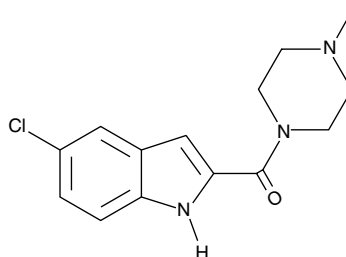


Product Information



JNJ-7777120
Item No. 10011925

CAS Registry No.: 459168-41-3
Formal Name: (5-chloro-1H-indol-2-yl)(4-methyl-1-piperazinyl)-methanone
MF: C₁₄H₁₆ClN₃O
FW: 277.8
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: λ_{max}: 219, 295 nm



Laboratory Procedures

For long term storage, we suggest that JNJ-7777120 be stored as supplied at -20°C. It should be stable for at least two years.

JNJ-7777120 is supplied as a crystalline solid. A stock solution may be made by dissolving the JNJ-7777120 in the solvent of choice. JNJ-7777120 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of JNJ-7777120 in these solvents is approximately 2 mg/ml in ethanol and approximately 14 mg/ml in DMSO and DMF.

JNJ-7777120 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, JNJ-7777120 should first be dissolved in DMF and then diluted with the aqueous buffer of choice. JNJ-7777120 has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

JNJ-7777120 is a potent and selective histamine H₄ receptor antagonist, with a K_i value of approximately 4 nM against the human, mouse, and rat H₄ receptors.¹ Its K_i values for the histamine H₁-3 receptors exceed 1 μM, regardless of species, and it has no or negligible effects on a range of other receptors and transporters.¹ JNJ-7777120 inhibits mast cell chemotaxis induced by 10 μM histamine (IC₅₀ = 40 nM) and reduces neutrophil influx in mouse peritonitis models (10 mg/kg s.c.).¹ It also impairs eosinophil and lymphocyte influx into airways during allergic airway inflammation.^{2,3}

References

1. Thurmond, R.L., Desai, P.J., Dunford, P.J., *et al.* A potent and selective histamine H₄ receptor antagonist with anti-inflammatory properties. *J. Pharmacol. Exp. Ther.* **309**(1), 404-413 (2004).
2. Dunford, P.J., O'Donnell, N., Riley, J.P., *et al.* The histamine H₄ receptor mediates allergic airway inflammation by regulating the activation of CD4⁺ T cells. *J. Immunol.* **176**, 7062-7070 (2006).
3. Cowden, J.M., Riley, J.P., Ma, J.Y., *et al.* Histamine H₄ receptor antagonism diminishes existing airway inflammation and dysfunction *via* modulation of Th2 cytokines. *Respir. Res.* **11**(86), (2010).

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