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Produktinformation

Forschungsprodukte & Biochemikalien

Zellkultur & Verbrauchsmaterial

Diagnostik & molekulare Diagnostik

Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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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:	$C_{14}H_{16}ClN_3O$
FW:	277.8
Purity:	≥98%
UV/Vis.:	λ_{max}: 219, 295 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥2 years
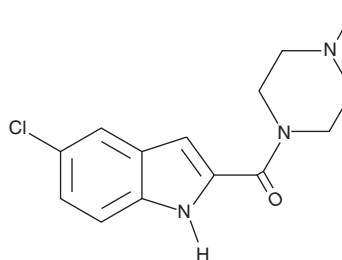
Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

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.

Description

JNJ-7777120 is a potent and selective histamine H_4 receptor antagonist, with a K_i value of approximately 4 nM against the human, mouse, and rat H_4 receptors.[1] Its K_i values for the histamine H_{1-3} receptors exceed 1 µM, regardless of species, and it has no or negligible effects on a range of other receptors and transporters.[1] JNJ-777120 inhibits mast cell chemotaxis induced by 10 µM histamine (IC_{50} = 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 H_4 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 H_4 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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