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Produktinformation

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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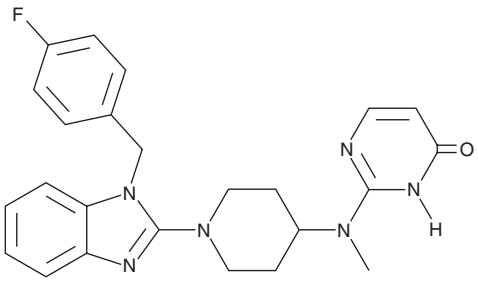
PRODUCT INFORMATION

Mizolastine

Item No. 9000566

CAS Registry No.: 108612-45-9
Formal Name: 2-[[1-[1-[(4-fluorophenyl) methyl]-1H-benzimidazol-2-yl]-4-piperidinyl]methylamino]-4(3H)-pyrimidinone
Synonym: SL 850324
MF: $C_{24}H_{25}FN_6O$
FW: 432.5
Purity: ≥98%
UV/Vis.: λ_{max}: 217, 289 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

Mizolastine is supplied as a crystalline solid. A stock solution may be made by dissolving the mizolastine in the solvent of choice, which should be purged with an inert gas. Mizolastine is soluble in the organic solvent chloroform at a concentration of approximately 10 mg/ml. Mizolastine is also slightly soluble in DMSO and dimethyl formamide.

Description

Mizolastine is a histamine H_1 receptor antagonist (K_i = 0.001 µM).[1] It is selective for histamine H_1 over histamine H_2 and H_3 receptors (K_is = >100 µM for both), as well as the serotonin (5-HT) receptor subtypes 5-HT_{1A}, 5-HT_{1B}, 5-HT_{1C}, 5-HT_{1D}, 5-HT_2, and 5-HT_3, dopamine D_1 and D_2, α_1- and α_2-adrenergic, adenosine, and muscarinic receptors in radioligand binding assays (K_is = >1 µM for all). Mizolastine (0.1, 0.3, and 1 mg/kg) reduces histamine release from bronchial mast cells in ovalbumin-sensitized guinea pigs. It reduces histamine-induced paw edema in rats, skin edema in dogs, and bronchoconstriction in guinea pigs (ED_{50}s = 0.5, 0.07, and 0.03 mg/kg, respectively). Mizolastine also inhibits passive cutaneous anaphylaxis, as well as lethal shock induced by compound 48/80 (Item No. 22173) in rats (ED_{50}s = 1.6 and 0.07 mg/kg, respectively). Formulations containing mizolastine have been used in the treatment of allergic rhinitis and urticaria.

Reference

1. Selve, N., Pichat, P., Goldhill, J., *et al.* Pharmacological profile of mizolastine, a novel histamine H_1 receptor antagonist. *Mast cells and basophils*. Moore, G., Lichtenstein, L.M., Galli, S.J., editors, 1st edition, *Academic Press* (2000).

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