

Product Data Sheet

Product Name: Loratadine-d5

Cat. No.: GC47575

Chemical Properties

Cas. No. 1020719-57-6

SMILES C1C(C=C1)=CC(CC([2H])([2H])C2=C/3N=C([2H])C([2H])=C2[2H])=C1C3=C4CCN(C(OCC)=O)CC/4

Formula C₂₂H₁₈ClD₅N₂O₂

M.Wt 387.9

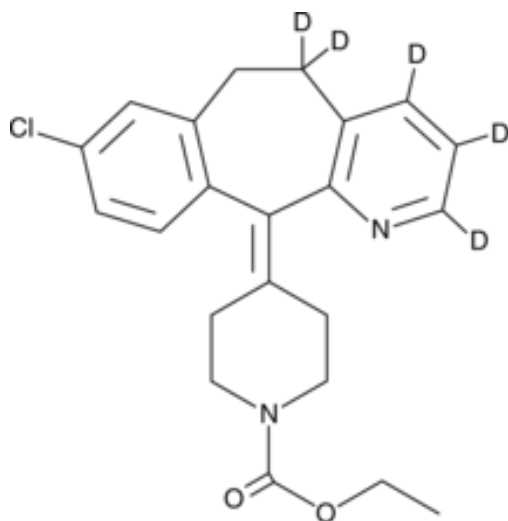
Solubility DMF: 30 mg/ml, DMSO: 25 mg/ml, Ethanol: 30 mg/ml

Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Loratadine-d₅ is intended for use as an internal standard for the quantification of loratadine by GC- or LC-MS. Loratadine is a non-sedating antihistamine that acts as a selective inverse agonist of peripheral histamine H₁ receptors ($K_i = 35$ nM).^{1,2,3} It has been shown to inhibit the release of leukotriene C₄ (IC₅₀ = 8 μM) and histamine (IC₅₀ = 11 μM) from rodent mast cells and to inhibit

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allergic bronchospasm in guinea pigs with an ED₅₀ value of 0.40 mg/kg.⁴ Formulations containing loratadine have been used in the treatment of allergic rhinitis and chronic idiopathic urticaria.

1.Ahn, H.S., and Barnett, A.Selective displacement of [3H]mepyramine from peripheral vs. central nervous system receptors by loratadine, a non-sedating antihistamineEur. J. Pharmacol.127(1-2)153-155(1986) 2.Kay, G.G., and Harris, A.G.Loratadine: A non-sedating antihistamine. Review of its effects on cognition, psychomotor performance, mood and sedationClin. Exp. Allergy29(Suppl 3)147-150(1999) 3.Barnett, A., Iorio, L.C., Kreutner, W., et al.Evaluation of the CNS properties of SCH 29851, a potential non-sedating antihistamineAgents Actions43(3-4)149-156(1994) 4.Kreutner, W., Chapman, R.W., Gulbenkian, A., et al.Antiallergic activity of loratadine, a non-sedating antihistamineAllergy42(1)57-63(1987)

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