Product Information

Loratadine
Item No. 15625

CAS Registry No.: 79794-75-5
Formal Name: 4-(8-chloro-5,6-dihydro-11H-benzo[5,6]cyclohepta[1,2-b]pyridin-11-ylidene)-ethyl ester-1-piperidinonecarboxylic acid
Synonyms: Claritin®, SCH 29851
MF: C_{22}H_{23}ClN_{2}O_{2}
FW: 382.9
Purity: ≥ 98%
Stability: ≥ 2 years at -20°C
Supplied as: A crystalline solid
UV/Vis: λ_{max} = 247 nm

Laboratory Procedures
For long term storage, we suggest that loratadine be stored as supplied at -20°C. It should be stable for at least two years. Loratadine is supplied as a crystalline solid. A stock solution may be made by dissolving the loratadine in the solvent of choice. Loratadine is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of loratadine in ethanol and DMF is approximately 30 mg/ml and approximately 25 mg/ml in DMSO.

Loratadine is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, loratadine should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. Loratadine has a solubility of approximately 0.25 mg/ml in a 1:3 solution of ethanol:PBS (pH 7.2). We do not recommend storing the aqueous solution for more than one day.

Loratadine is a non-sedating antihistamine that acts as a selective inverse agonist of peripheral histamine H_{1} receptors (K_{i} = 35 nM). It has been shown to inhibit the release of leukotriene C_{4} (IC_{50} = 8 µM) and histamine (IC_{50} = 11 µM) from rodent mast cells and to inhibit allergic bronchospasm in guinea pigs with an ED_{50} value of 0.40 mg/kg.

References

Related Products
For a list of related products please visit: [www.caymanchem.com/catalog/15625](http://www.caymanchem.com/catalog/15625)