PRODUCT INFORMATION

Bepotastine (besylate)
Item No. 23721

CAS Registry No.: 190786-44-8
Formal Name: 4-[(S)-(4-chlorophenyl)-2-pyridinylmethoxy]-1-piperidinebutanoic acid, monobenzenesulfonate
Synonyms: Bepotastine besilate, TAU-284
MF: C_{21}H_{25}ClN_{2}O_{3} • C_{6}H_{6}O_{3}S
FW: 547.1
Purity: ≥95%
Supplied as: A solid
Storage: 4°C
Stability: ≥1 year

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Bepotastine (besylate) is supplied as a solid. A stock solution may be made by dissolving the bepotastine (besylate) in the solvent of choice. Bepotastine (besylate) is soluble in organic solvents such as methanol and DMSO, which should be purged with an inert gas.

Description

Bepotastine is an antagonist of the histamine H\textsubscript{1} receptor that is selective over H\textsubscript{3}, \alpha\textsubscript{1}-, \alpha\textsubscript{2}-, and β-adrenergic, dopamine D\textsubscript{2}long, serotonin 5-HT\textsubscript{2}, muscarinic acetylcholine, and benzodiazepine receptors. It reduces dye leakage from the nasal passages of rats acutely sensitized to an antigen (ED\textsubscript{50} = 0.03 mg/kg) and inhibits histamine-induced bronchoconstriction in the anesthetized dog (ED\textsubscript{50} = 3.2 µg/kg). Bepotastine prevents conjunctival vascular hyperpermeability in a guinea pig model of conjunctivitis in a dose-dependent manner. Formulations containing bepotastine have been used in the treatment of itching associated with allergic conjunctivitis.

References