

Certificate of Analysis

Product Name: Olopatadine hydrochloride

Catalog No.: 4241

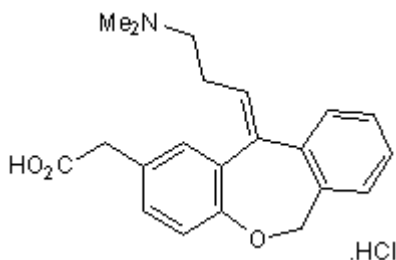
Batch No.: 1

CAS Number: 140462-76-6

IUPAC Name: (Z)-11-[3-(Dimethylamino)propylidene]-6,11-dihydro-dibenz[b,e]oxepin-2-acetic acid hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₁H₂₃NO₃.HCl
Batch Molecular Weight: 373.87
Physical Appearance: White solid
Solubility: water to 75 mM
DMSO to 100 mM
Storage: Desiccate at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	67.46	6.47	3.75
Found	67.34	6.8	3.79

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Histamine H₁ receptor antagonist (K_i = 31.6 nM). Inhibits the release of histamine, prostaglandin D₂ and tryptase in a concentration-dependent manner. Mast cell stabilizer; inhibits mast cell mediator release. Also suppresses inflammation by inhibition of cytokine production.

Physical and Chemical Properties:

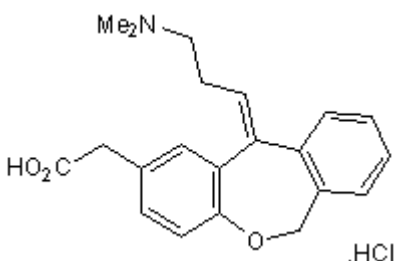
Batch Molecular Formula: C₂₁H₂₃NO₃.HCl

Batch Molecular Weight: 373.87

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Sharif et al (1996) Characterization of the ocular antiallergic and antihistaminic effects of olopatidine (AL-4943A), a novel drug for treating ocular allergic diseases. *J.Pharm.Exp.Ther.* **278** 1252.

Tamura et al (2007) Olopatidine ameliorates rat experimental cutaneous inflammation by improving skin barrier function. *Pharmacology* **81** 118. PMID: 17962722.

Storage: Desiccate at RT

Solubility & Usage Info:

water to 75 mM
DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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