

## Certificate of Analysis

**Product Name:** Loratidine

**Catalog No.:** 1944

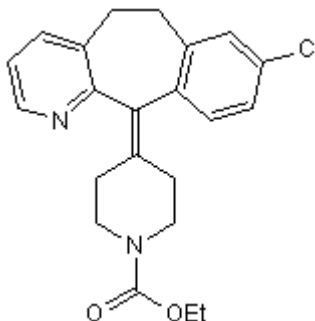
**Batch No.:** 1

CAS Number: 79794-75-5

IUPAC Name: 4-(8-Chloro-5,6-dihydro-11*H*-benzo[5,6]cyclohepta[1,2-*b*]pyridin-11-ylidene)-1-piperidinecarboxylic acid ethyl ester

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>22</sub>H<sub>23</sub>ClN<sub>2</sub>O<sub>2</sub>  
**Batch Molecular Weight:** 382.88  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 25 mM  
ethanol to 100 mM  
**Storage:** Store at RT  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.39 (Ethyl acetate:Petroleum ether [1:1])  
**Melting Point:** At 142°C  
**HPLC:** Shows >99.8% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	69.01	6.05	7.32
Found	69.01	6.06	7.28

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**Description:**

Peripheral histamine H<sub>1</sub> receptor antagonist (K<sub>i</sub> = 35 nM); devoid of central effects. Orally active antiallergic agent.

**Physical and Chemical Properties:**

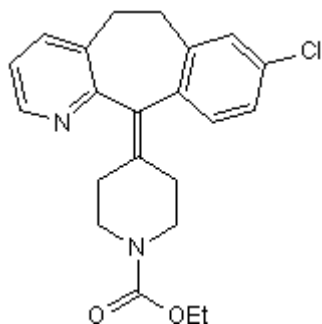
Batch Molecular Formula: C<sub>22</sub>H<sub>23</sub>ClN<sub>2</sub>O<sub>2</sub>

Batch Molecular Weight: 382.88

Physical Appearance: White solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**Storage:** Store at RT

**Solubility & Usage Info:**

DMSO to 25 mM

ethanol 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.

**References:**

**Barnett *et al*** (1984) Evaluation of the CNS properties of SCH 29851, a potential non-sedating antihistamine. *Agents Actions* **14** 590. PMID: 6236679.

**Ahn and Barnett** (1986) Selective displacement of [<sup>3</sup>H]mepyramine from peripheral vs. central nervous system receptors by loratidine, a non-sedating antihistamine. *Eur.J.Pharmacol.* **127** 153. PMID: 2875889.

**Kreutner *et al*** (1987) Antiallergic activity of loratidine, a non-sedating antihistamine. *Allergy* **42** 57. PMID: 2436504.

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