

## Certificate of Analysis

**Product Name:** Desloratadine

**Catalog No.:** 5958

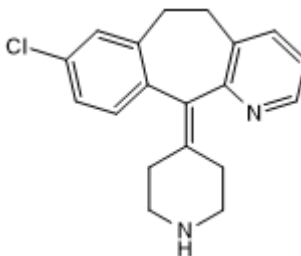
**Batch No.:** 1

CAS Number: 100643-71-8

IUPAC Name: 8-Chloro-6,11-dihydro-11-(4-piperidinylidene)-5H-benzo[5,6]cyclohepta[1,2-b]pyridine

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>19</sub>H<sub>19</sub>ClN<sub>2</sub>  
**Batch Molecular Weight:** 310.82  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 20 mM  
 ethanol to 100 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**HPLC:** Shows 99.8% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	73.42	6.16	9.01
Found	73.23	6.31	9.01

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**Description:**

High affinity histamine H<sub>1</sub> receptor antagonist (K<sub>i</sub> = 0.87 nM); active metabolite of loratadine (Cat. No. 1944). Anti-inflammatory.

**Physical and Chemical Properties:**

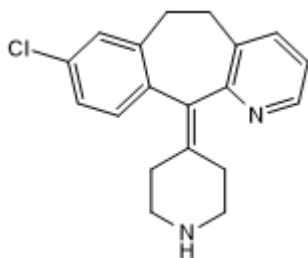
Batch Molecular Formula: C<sub>19</sub>H<sub>19</sub>ClN<sub>2</sub>

Batch Molecular Weight: 310.82

Physical Appearance: White solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**Storage:** Store at +4°C

**Solubility & Usage Info:**

DMSO to 20 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:**

**Henz (2001)** The pharmacologic profile of desloratadine: a review. *Allergy* **56** 7. PMID: 11243504.

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