Certificate of Analysis

Print Date: Feb 21st 2017

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Product Name: Cetirizine dihydrochloride

Catalog No.: 2577 Batch No.: 2

CAS Number: IUPAC Name:

OCR

a **biotechne** brand

83881-52-1 [2-[4-[(4-Chlorophenyl)phenylmethyl]-1-piperazinyl]ethoxy]acetic acid dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: C₂₁H₂₅CIN₂O₃.2HCl 461.81 White solid water to 100 mM DMSO to 100 mM ethanol to 10 mM Desiccate at RT

Storage: Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: ¹H NMR: Mass Spectrum: Microanalysis:

Shows 99.5% purity Consistent with structure Consistent with structure

	Carbon H	ydrogen N	Vitrogen	Chlorine
Theoretical	54.62	5.89	6.06	23.03
Found	54.53	5.97	5.92	23.35

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

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CAS Number: 83881-52-1

IUPAC Name: [2-[4-[(4-Chlorophenyl)phenylmethyl]-1-piperazinyl]ethoxy]acetic acid dihydrochloride

Description:

Histamine H_1 receptor antagonist that displays selectivity over other receptors at concentrations up to 10 μ M. A non-sedating antihistamine that inhibits histamine release and eosinophil chemotaxis during secondary phase allergic response. Inhibits activation of eosinophils, neutrophils and monocytes in vivo.

Physical and Chemical Properties:

Batch Molecular Formula: C₂₁H₂₅ClN₂O₃.2HCl Batch Molecular Weight: 461.81 Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

water to 100 mM DMSO to 100 mM ethanol to 10 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).

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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:

Walsh *et al* (1991) Effects of cetirizine on human eosinophil and neutrophil activation in vitro. Int.Arch.Allergy Appl.Immunol. **95** 158. PMID: 1682275.

Campoli-Richards *et al* (1990) Cetirizine. A review of its pharmacological properties and clinical potential in allergic rhinitis, polleninduced asthma, and chronic urticaria. Drugs **40** 762. PMID: 1981354.

Snowman and Snyder (1990) Cetirizine: actions on neurotransmitter receptors. J.Allergy.Clin.Immunol. 86 1025. PMID: 1979798.

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