

Certificate of Analysis

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Product Name: Fexofenadine hydrochloride

Catalog No.: 2429

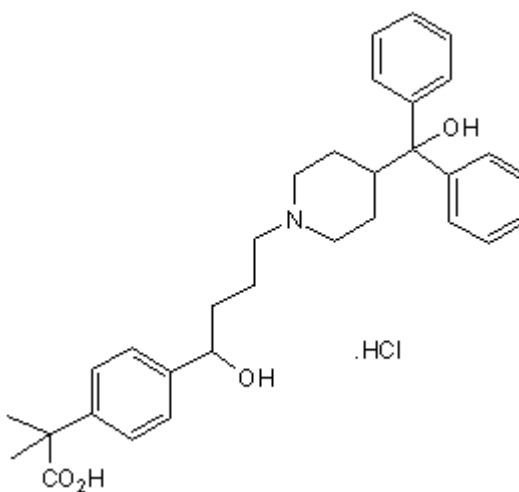
Batch No.: 1

CAS Number: 153439-40-8

IUPAC Name: α,α -Dimethyl-4-[1-hydroxy-4-[4-(hydroxydiphenylmethyl)-1-piperidinyl]butyl]-benzeneacetic acid hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₂H₃₉NO₄.HCl
Batch Molecular Weight: 538.12
Physical Appearance: White solid
Solubility: DMSO to 50 mM
Storage: Desiccate at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows >99.9% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	71.42	7.49	2.6
Found	71.43	7.5	2.43

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

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Description:

Selective histamine H₁ receptor antagonist (pK_i = 8.1). Active metabolite of terfenadine that displays non-sedating antiallergic effects.

Physical and Chemical Properties:

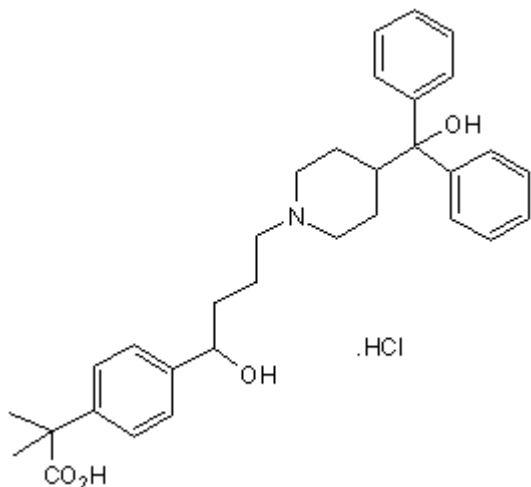
Batch Molecular Formula: C₃₂H₃₉NO₄.HCl

Batch Molecular Weight: 538.12

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at +4°C

Solubility & Usage Info:

DMSO to 50 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:

Markham and Wagstaff (1998) Fexofenadine. *Drugs* **55** 269. PMID: 9506246.

Sakairi et al (2005) Effects of fexofenadine hydrochloride in a guinea pig model of antigen-induced rhinitis. *Pharmacology* **75** 76. PMID: 16037679.

Gillard and Chatelaine (2006) Changes in pH differently affect the binding properties of histamine H₁ receptor antagonists. *Eur.J.Pharmacol.* **530** 205. PMID: 16388798.

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