

Certificate of Analysis

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Product Name: Dexfenfluramine hydrochloride

Catalog No.: 2695

Batch No.: 2

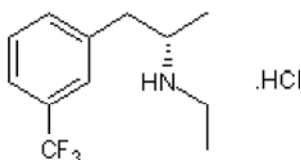
CAS Number: 3239-45-0

EC Number: 221-806-0

IUPAC Name: (S)-N-Ethyl- α -methyl-3-(trifluoromethyl)benzeneethanamine hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₂H₁₆F₃N.HCl
Batch Molecular Weight: 267.72
Physical Appearance: Off White solid
Solubility: water to 100 mM
DMSO to 100 mM
Storage: Desiccate at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 95.0% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: [α]_D = +8.9 (Concentration = 2.83, Solvent = Water)
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	53.84	6.4	5.23
Found	53.85	6.26	5.13

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

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IUPAC Name: (S)-N-Ethyl- α -methyl-3-(trifluoromethyl)benzeneethanamine hydrochloride

Description:

Indirectly agonizes serotonin receptors via inhibition of 5-HT re-uptake and stimulation of 5-HT release. Anorectic agent; decreases growth hormone, insulin, leptin, fat mass, lean mass and increases ghrelin in diet-switched diet-induced obese mice.

Physical and Chemical Properties:

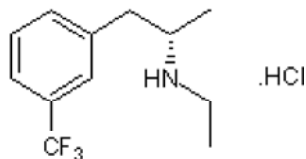
Batch Molecular Formula: C₁₂H₁₆F₃N.HCl

Batch Molecular Weight: 267.72

Physical Appearance: Off White solid

Minimum Purity: ≥95%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

water to 100 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.

References:

Bush et al (2006) Chronic treatment with either dexfenfluramine or sibutr. in diet-switched diet-induced obese mice. *Endocrine* **29** 375. PMID: 16785615.

Higgins et al (2001) Influence of the 5-HT_{2C} receptor antagonist SB242,084 on behaviour produced by the 5-HT₂ agonist Ro60-0175 and the indirect 5-HT agonist dexfenfluramine. *Br.J.Pharmacol.* **133** 459. PMID: 11399662.

Caccia et al (1997) Neuropharmacological effects of low and high doses of repeated oral dexfenfluramine in rats: a comparison with fluox. *Pharmacol.Biochem.Behav.* **57** 851. PMID: 9259015.

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