

Certificate of Analysis

Product Name: Amperozide hydrochloride

Catalog No.: 2746

Batch No.: 1

CAS Number: 86725-37-3

IUPAC Name: 4-[4,4-bis(4-Fluorophenyl)butyl]-N-ethyl-1-piperazinecarboxamide hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₃H₂₉F₂N₃O.HCl

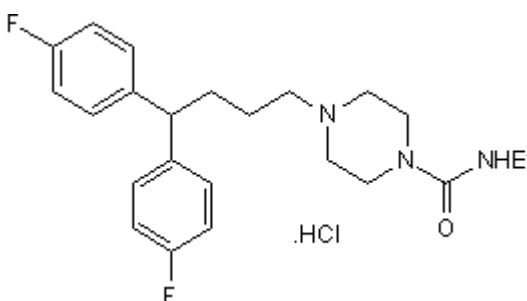
Batch Molecular Weight: 437.95

Physical Appearance: White solid

Solubility: water to 50 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.2 (Ethyl acetate)

HPLC: Shows 100% purity

¹H NMR: Consistent with structure

¹³C NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen	Chlorine
Theoretical	63.08	6.9	9.59	8.1
Found	62.74	6.86	9.48	8.13

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Description:

Atypical antipsychotic that displays high affinity for 5-HT₂ receptors (K_i = 26 nM) and low affinity for D₂ receptors. Suppresses ethanol drinking in genetically ethanol-preferring rats.

Physical and Chemical Properties:

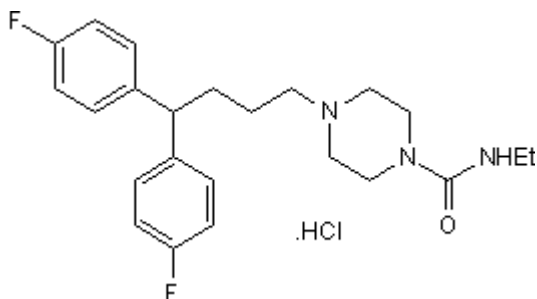
Batch Molecular Formula: C₂₃H₂₉F₂N₃O.HCl

Batch Molecular Weight: 437.95

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

water 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:

Haskins et al (1987) Biochemical and electrophysical studies of the psychotropic compound, amperozide. *Brain Res.Bull.* **19** 465. PMID: 2825928.

Meltzer et al (1992) Effect of amperozide on rat cortical 5-HT₂ and striatal and limbic dopamine D₂ receptor occupancy: implications for antipsychotic action. *Eur.J.Pharmacol.* **216** 67. PMID: 1388121.

Myers et al (1993) 5-HT₂ receptor blockade by amperozide suppresses ethanol drinking in genetically preferring rats. *Pharmacol.Biochem.Behav.* **45** 741. PMID: 8332634.

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