

Certificate of Analysis

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Product Name: Citalopram hydrobromide

Catalog No.: 1427

Batch No.: 1

CAS Number: 59729-32-7

EC Number: 261-891-1

IUPAC Name: 1-[3-(dimethylamino)propyl]-1-(4-fluorophenyl)-1,3-dihydro-5-isobenzofurancarbonitrile hydrobromide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₀H₂₁FN₂O.HBr

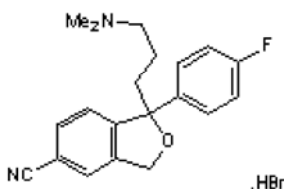
Batch Molecular Weight: 405.31

Physical Appearance: White solid

Solubility: ethanol to 50 mM
water to 10 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.37 (Dichloromethane:Methanol:Ammonia soln. [9:1:0.1])

Melting Point: Between 189 - 192°C

HPLC: Shows 100% purity

¹H NMR: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	59.26	5.47	6.91
Found	59.22	5.46	6.97

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

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Description:

Highly selective and potent 5-HT uptake inhibitor with no effect on noradrenalin or dopamine uptake (IC₅₀ values are 1.8, 8800 and 41000 nM respectively). Has negligible activity at a wide range of receptors. Deuterated analog also available.

Physical and Chemical Properties:

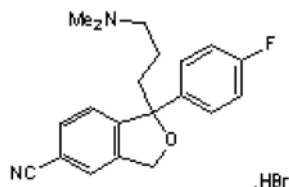
Batch Molecular Formula: C₂₀H₂₁FN₂O.HBr

Batch Molecular Weight: 405.31

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

ethanol to 50 mM

water 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).

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:

Mateo et al (2000) Inhibition of 5-hydroxytryptamine reuptake by the antidepressant citalopram in the locus coeruleus modulates the rat brain noradrenergic transmission in vivo. *Neuropharmacology* **39** 2036. PMID: 10963747.

Auerbach and Hjorth (1995) Effect of chronic administration of the selective serotonin (5-HT) uptake inhibitor citalopram on extracellular 5-HT and apparent autoreceptor sensitivity in rat forebrain in vivo. *Naunyn Schmiedebergs Arch.Pharmacol.* **352** 597. PMID: 9053730.

Hyttel (1982) Citalopram - pharmacological profile of a specific serotonin uptake inhibitor with antidepressant activity. *Prog.Drug Metabolism*. Eds. Bridges, J. W. & Ch **6** 277.

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