

Certificate of Analysis

Product Name: LY 334370 hydrochloride

Catalog No.: 3079

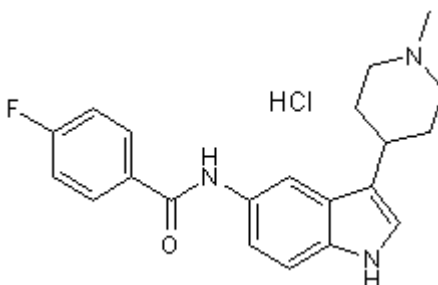
Batch No.: 2

CAS Number: 199673-74-0

IUPAC Name: 4-Fluoro-*N*-[3-(1-methyl-4-piperidiny)-1*H*-indol-5-yl]benzamide hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₂₁ H ₂₂ FN ₃ O.HCl.½H ₂ O
Batch Molecular Weight:	392.38
Physical Appearance:	Off-white solid
Solubility:	water to 25 mM with gentle warming DMSO to 25 mM with gentle warming
Storage:	Store at +4°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

TLC:	R _f = 0.4 (Dichloromethane:Methanol [80:20])
HPLC:	Shows >99.2% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure
Microanalysis:	

	Carbon	Hydrogen	Nitrogen
Theoretical	64.28	6.04	10.71
Found	63.97	6.15	10.59

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

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Description:

Selective 5-HT_{1F} receptor agonist (K_i values are 1.87, 16.4, > 100 (IC₅₀), 176, 189, 281, 1280, 1530, 1550, > 3000 (IC₅₀) and 3250 nM for 5-HT_{1F}, 5-HT_{1A}, 5-HT₄, 5-HT_{1E}, 5-HT_{1B}, 5-HT_{1D}, 5-HT_{2B}, 5-HT_{2A}, 5-HT₇, 5-HT₆ and 5-HT_{2C} receptors respectively). Displays antimigraine effects.

Physical and Chemical Properties:

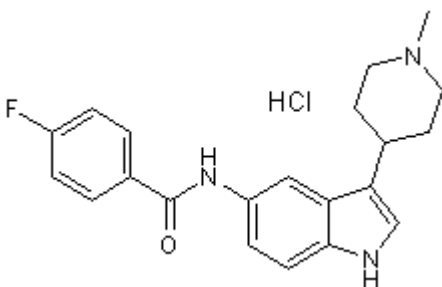
Batch Molecular Formula: C₂₁H₂₂FN₃O.HCl.¼H₂O

Batch Molecular Weight: 392.38

Physical Appearance: Off-white solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Dupuis et al (1998) G-protein activation at 5-HT_{1A} receptors by the 5-HT_{1F} ligand LY334370 in guinea-pig brain sections and recombinant cell lines. *Br.J.Pharmacol.* **124** 283. PMID: 9641544.

Shepherd et al (1999) Possible antimigraine mechanisms of action of the 5-HT_{1F} receptor agonist LY334370. *Cephalalgia* **19** 851. PMID: 10668103.

Waincott et al (2005) [³H]LY334370, a novel radioligand for the 5-HT_{1F} receptor. I. In vitro characterization of binding properties. *Naunyn-Schmied.Arch.Pharmacol.* **371** 169.

Storage: Store at +4°C

Solubility & Usage Info:

water to 25 mM with gentle warming
DMSO to 25 mM with gentle warming

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.

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