

Certificate of Analysis

Product Name: LY 487379 hydrochloride

Catalog No.: 3283

Batch No.: 5

CAS Number: 353229-59-1

IUPAC Name: 2,2,2-Trifluoro-*N*-[4-(2-methoxyphenoxy)phenyl]-*N*-(3-pyridinylmethyl)ethanesulfonamide hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₁H₁₉F₃N₂O₄S.HCl.½H₂O

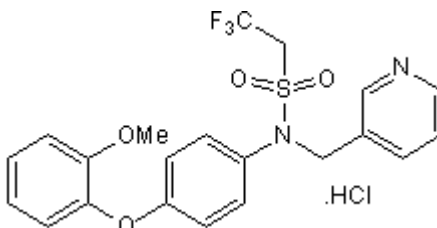
Batch Molecular Weight: 497.92

Physical Appearance: Pale yellow solid

Solubility: DMSO to 100 mM
ethanol to 50 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.57 (Chloroform:Methanol:Ammonia soln. [90:9:1])

HPLC: Shows 100% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	50.66	4.25	5.63
Found	50.73	4.15	5.57

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

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Description:

Positive allosteric modulator selective for mGlu₂ receptors. Potentiates glutamate-stimulated [³⁵S]GTPγS binding (EC₅₀ values are 1.7 and > 10 μM for mGlu₂ and mGlu₃ receptors respectively). Devoid of any activity at mGlu₅ and mGlu₇ receptors. Promotes cognitive flexibility in a rat model.

Physical and Chemical Properties:

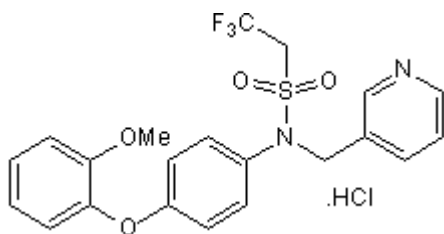
Batch Molecular Formula: C₂₁H₁₉F₃N₂O₄S.HCl.½H₂O

Batch Molecular Weight: 497.92

Physical Appearance: Pale yellow solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at -20°C. This product is packaged under an inert atmosphere.

Solubility & Usage Info:

DMSO to 100 mM
ethanol to 50 mM

CAUTION - This product is extremely hygroscopic and should be stored desiccated.

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:

Johnson et al (2003) Discovery of allosteric potentiators for the metabotropic glutamate 2 receptor: synthesis and subtype selectivity of *N*-(4-(2-methoxyphenoxy)phenyl)-*N*-(2,2,-trifluoroethylsulfonyl)pyrid-3-ylmethyl-amine. *J.Med.Chem.* **46** 3189. PMID: 12852748.

Schaffhauser et al (2003) Pharmacological characterization and identification of amino acids involved in the positive modulation of metabotropic glutamate receptor subtype 2. *Mol.Pharmacol.* **64** 798. PMID: 14500736.

Poisik et al (2005) Metabotropic glutamate receptor 2 modulates excitatory synaptic transmission in the rat globus pallidus. *Neuropharmacology* **49** 57. PMID: 15993439.

Nikiforuk et al (2010) Effects of a positive allosteric modulator of group II metabotropic glutamate receptors, LY487379, on cognitive flexibility and impulsive-like responding in rats. *J.Pharmacol.Exp.Ther.* **335** 665. PMID: 20739457.

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