

Certificate of Analysis

Product Name: LY 2389575 hydrochloride

Catalog No.: 4969

Batch No.: 1

CAS Number: 885104-09-6

IUPAC Name: (3S)-N-(2,4-Dichlorobenzyl)-1-(5-bromopyrimidin-2-yl)pyrrolidinyl-3-amine hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₅H₁₅BrCl₂N₄·HCl

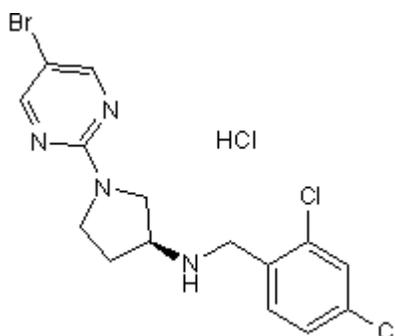
Batch Molecular Weight: 438.58

Physical Appearance: Off-white solid

Solubility: DMSO to 20 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.73 (Dichloromethane:Methanol [95:5])

HPLC: Shows >99.7% purity

Chiral HPLC: Shows >99.4% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	41.08	3.68	12.77
Found	40.95	3.71	12.62

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Description:

Selective negative allosteric modulator of mGlu₃ (IC₅₀ = 190 nM). Exhibits > 65-fold selectivity for mGlu₃ over other mGlu receptors. Abolishes the neuroprotective action of LY 379268 against amyloid β toxicity in mixed cortical neuronal and astrocyte cell cultures.

Physical and Chemical Properties:

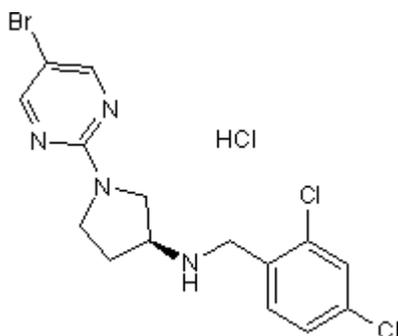
Batch Molecular Formula: C₁₅H₁₅BrCl₂N₄.HCl

Batch Molecular Weight: 438.58

Physical Appearance: Off-white solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

DMSO to 20 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:

Caraci et al (2011) Targeting group II metabotropic glutamate (mGlu) receptors for the treatment of psychosis associated with Alzheimer's disease: selective activation of mGlu2 receptors amplifies beta-amyloid toxicity in cultured neurons, whereas dual activation of mGlu2 and mGlu3 receptors is neuroprotective. *Mol.Pharmacol.* **79** 618. PMID: 21159998.

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