

Certificate of Analysis

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Product Name: LY 456236 hydrochloride

Catalog No.: 2390

Batch No.: 1

CAS Number: 338736-46-2

IUPAC Name: 6-Methoxy-*N*-(4-methoxyphenyl)-4-quinazolinamine hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₆H₁₅N₃O₂.HCl

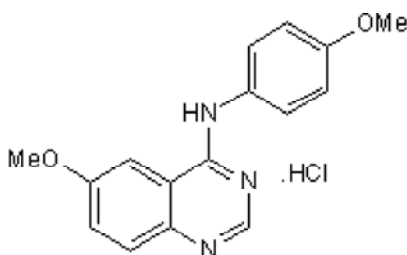
Batch Molecular Weight: 317.77

Physical Appearance: Yellow solid

Solubility: DMSO to 20 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.15 (Ethyl acetate:Petroleum ether [1:1])

HPLC: Shows 99.3% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	60.48	5.07	13.22
Found	60.11	4.98	13.06

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

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IUPAC Name: 6-Methoxy-N-(4-methoxyphenyl)-4-quinazolinamine hydrochloride

Description:

Selective mGlu₁ receptor antagonist (IC₅₀ values are 143 nM and > 10 μM for mGlu₁ and mGlu₅ receptors respectively). Reduces hyperalgesic behavior induced by formalin in both mouse and rat with ED₅₀ values of 28 and 16.3 mg/kg respectively.

Physical and Chemical Properties:

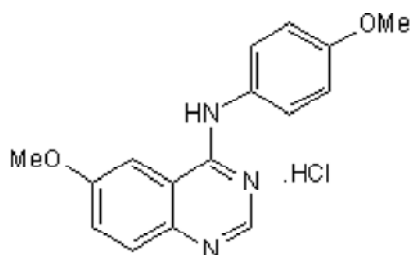
Batch Molecular Formula: C₁₆H₁₅N₃O₂.HCl

Batch Molecular Weight: 317.77

Physical Appearance: Yellow solid

Minimum Purity: >99%

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:

Bertorelli *et al* (2005) Selective blockade of metabotropic glutamate subtype mGluR1 receptors induce anti-nociceptive effects. *Neuropharmacology* **49** (Suppl. 1) 231.

Shannon *et al* (2005) Anticonvulsant effects of LY456236, a selective mGlu1 receptor antagonist. *Neuropharmacology* **49** (Suppl. 1) 188. PMID: 16011839.

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