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: \( \text{C}_{16}\text{H}_{15}\text{N}_3\text{O}_2\cdot\text{HCl} \)
Batch Molecular Weight: 317.77
Physical Appearance: Yellow solid
Solubility: DMSO to 20 mM
Storage: Desiccate at RT

2. ANALYTICAL DATA

TLC: \( R_f = 0.15 \) (Ethyl acetate:Petroleum ether [1:1])
HPLC: Shows 99.3% purity
\(^1\text{H} \text{NMR:} \) Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

<table>
<thead>
<tr>
<th>Element</th>
<th>Theoretical</th>
<th>Found</th>
<th>Error</th>
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<tr>
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<td>Nitrogen</td>
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<td>13.06</td>
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</tbody>
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Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
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Description:
Selective mGlu<sub>1</sub> receptor antagonist (IC<sub>50</sub> values are 143 nM and > 10 μM for mGlu<sub>1</sub> and mGlu<sub>5</sub> receptors respectively). Reduces hyperalgesic behavior induced by formalin in both mouse and rat with ED<sub>50</sub> values of 28 and 16.3 mg/kg respectively.

Physical and Chemical Properties:
Batch Molecular Formula: C<sub>16</sub>H<sub>12</sub>N<sub>2</sub>O<sub>2</sub>.HCl
Batch Molecular Weight: 317.77
Physical Appearance: Yellow solid
Minimum Purity: >99%

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.