Product Name: LY 367385  
Catalog No.: 1237  
Batch No.: 9

CAS Number: 198419-91-9  
IUPAC Name: (S)-(+)−α−Amino-4-carboxy-2-methylbenzeneacetic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

- Batch Molecular Formula: \( \text{C}_{10}\text{H}_{11}\text{NO}_{4} \)
- Batch Molecular Weight: 209.2
- Physical Appearance: White solid
- Solubility: 1eq. NaOH to 50 mM with gentle warming
- Storage: Desiccate at RT
- Batch Molecular Structure:

2. ANALYTICAL DATA

- TLC: \( R_f = 0.7 \) (Butanol:Acetic acid:Water [8:1:1])
- Melting Point: Between 275 - 279°C
- Chiral HPLC: Shows >99.9% purity
- \(^1\text{H} \) NMR: Consistent with structure
- Mass Spectrum: Consistent with structure
- Optical Rotation: \( [\alpha]_D = +180 \) (Concentration = 0.25, Solvent = 6N HCl)
- Microanalysis:
  
<table>
<thead>
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<th>Element</th>
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<tr>
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Description:
LY 367385 is a selective mGlu1a receptor antagonist, with an IC50 value of 8.8 μM for blockade of quisqualate-induced phosphoinositide hydrolysis vs. > 100 μM for mGlu5a, and negligible action on group II and III receptors.

Physical and Chemical Properties:
Batch Molecular Formula: C10H11NO4
Batch Molecular Weight: 209.2
Physical Appearance: White solid
Minimum Purity: ≥99%

Storage: Desiccate at RT

Solubility & Usage Info:
1eq. NaOH to 50 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.

Licensing Information:
Sold with the permission of Eli Lilly and Company

References:
Bruno et al (1999) Neuroprotective activity of the potent and selective mGlu1a metabotropic glutamate receptor antagonist, (+)-2-methyl-4-carboxyphenylglycine (LY367385): comparison with LY357366, a broader spectrum antagonist with equal affinity for mGlu1a and mGlu5 receptor Neuropharmacology 38 199. PMID: 10218860.
