

**Product Name:** LY 367385

**Catalog No.:** 1237

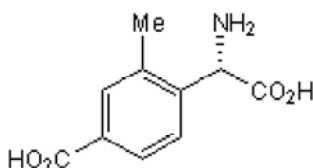
**Batch No.:** 11

CAS Number: 198419-91-9

IUPAC Name: (S)-(+)- $\alpha$ -Amino-4-carboxy-2-methylbenzeneacetic acid

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>10</sub>H<sub>11</sub>NO<sub>4</sub>.  
**Batch Molecular Weight:** 209.2  
**Physical Appearance:** Off White solid  
**Solubility:** 1eq. NaOH to 50 mM with gentle warming  
**Storage:** Desiccate at RT  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**Chiral HPLC:** Shows 99.7% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	57.41	5.3	6.7
Found	57.36	5.39	6.51

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

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**Description:**

LY 367385 is a selective mGlu<sub>1a</sub> receptor antagonist, with an IC<sub>50</sub> value of 8.8  $\mu$ M for blockade of quisqualate-induced phosphoinositide hydrolysis vs. > 100  $\mu$ M for mGlu<sub>5a</sub>, and negligible action on group II and III receptors.

**Physical and Chemical Properties:**

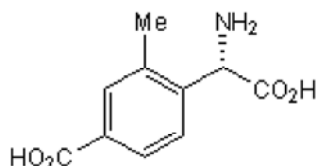
Batch Molecular Formula: C<sub>10</sub>H<sub>11</sub>NO<sub>4</sub>.

Batch Molecular Weight: 209.2

Physical Appearance: Off White solid

**Minimum Purity:**  $\geq$ 99%

**Batch Molecular Structure:**



**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 mGlu<sub>1a</sub> metabotropic glutamate receptor antagonist, (+)-2-methyl-4 carboxyphenylglycine (LY367385): comparison with LY357366, a broader spectrum antagonist with equal affinity for mGlu<sub>1a</sub> and mGlu<sub>5</sub> recept Neuropharmacology **38** 199. PMID: 10218860.

**Chapman et al** (1999) Anticonvulsant actions of LY 367385 ((+)-methyl-4-carboxyphenylglycine), and AIDA ((RS)-1-aminoindan-1,5-dicarboxylic acid). Eur.J.Pharmacol. **368** 17. PMID: 10096765.

**Salt and Turner** (1998) Reduction of sensory and metabotropic glutamate receptor responses in the thalamus by the novel metabotropic glutamate receptor-1-selective antagonist S-2-methyl-4-carboxy-phenylglycine. Neuroscience **85** 655. PMID: 9639261.

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