

Product Name: LY 367385

Catalog No.: 1237

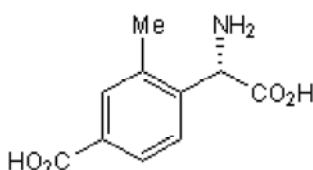
Batch No.: 10

CAS Number: 198419-91-9

IUPAC Name: (S)-(+)- α -Amino-4-carboxy-2-methylbenzeneacetic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₀H₁₁NO₄· $\frac{1}{4}$ H₂O
Batch Molecular Weight: 213.7
Physical Appearance: White solid
Solubility: 1eq. NaOH to 50 mM with gentle warming
Storage: Desiccate at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

Chiral HPLC: Shows 99.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: [α]_D = +159.3 (Concentration = 0.25, Solvent = 6N HCl)

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	56.2	5.42	6.55
Found	56.32	5.4	6.67

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

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IUPAC Name: (S)-(+)- α -Amino-4-carboxy-2-methylbenzeneacetic acid

Description:

LY 367385 is a selective mGlu_{1a} receptor antagonist, with an IC₅₀ value of 8.8 μ M for blockade of quisqualate-induced phosphoinositide hydrolysis vs. > 100 μ M for mGlu_{5a}, and negligible action on group II and III receptors.

Physical and Chemical Properties:

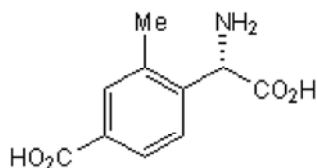
Batch Molecular Formula: C₁₀H₁₁NO₄· $\frac{1}{4}$ H₂O

Batch Molecular Weight: 213.7

Physical Appearance: 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_{1a} metabotropic glutamate receptor antagonist, (+)-2-methyl-4 carboxyphenylglycine (LY367385): comparison with LY357366, a broader spectrum antagonist with equal affinity for mGlu_{1a} and mGlu₅ 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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