

Product Name: L-CCG-I

Catalog No.: 0333

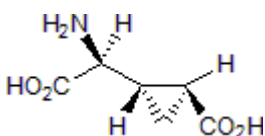
Batch No.: 9

CAS Number: 117857-93-9

IUPAC Name: (2S,1'S,2'S)-2-(Carboxycyclopropyl)glycine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₆H₉NO₄
Batch Molecular Weight: 159.14
Physical Appearance: White solid
Solubility: 1eq. NaOH to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.26 (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])
HPLC: Shows 99.4% purity
Chiral HPLC: Shows 99.9% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: [α]_D = +106.8 (Concentration = 0.5, Solvent = Water)

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	45.28	5.7	8.8
Found	45.32	5.61	8.79

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

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IUPAC Name: (2S,1'S,2'S)-2-(Carboxycyclopropyl)glycine

Description:

Potent group II metabotropic glutamate receptor agonist. More active than glutamate or (±)-trans-ACPD (Cat. No. 0187).

Physical and Chemical Properties:

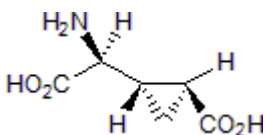
Batch Molecular Formula: C₆H₉NO₄

Batch Molecular Weight: 159.14

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

1eq. NaOH to 100 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:

Shinozaki et al (1989) Potent NMDA-like actions and potentiation of glutamate responses by conformational variants of a glutamate analogue in the rat spinal cord. *Br.J.Pharmacol.* **98** 1213. PMID: 2692753.

Hayashi et al (1992) Agonist analysis of 2-(carboxycyclopropyl)glycine isomers for cloned metabotropic glutamate receptor subtypes expressed in Chinese hamster ovary cells. *Br.J.Pharmacol.* **107** 539. PMID: 1330184.

Wright and Schoepp (1996) Differentiation of group 2 and group 3 metabotropic glutamate receptor cAMP responses in the rat hippocampus. *Eur.J.Pharmacol.* **297** 275. PMID: 8666060.

Brabet et al (1998) Comparative effect of L-CCG-I, DCG-IV and γ-carboxy-L-glutamate on all cloned metabotropic glutamate receptor subtypes. *Neuropharmacology* **37** 1043. PMID: 9833633.

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