TOCRIS
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Print Date: Jan 13th 2016

Certificate of Analysis

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Product Name: L-3'-F_2CCG-I **Catalog No.: 1058** **Batch No.: 2**

IUPAC Name: (2*S*,1'*S*,2'*S*)-2-(2'-Carboxy-3',3'-difluorocyclopropyl)glycine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_6H_7F_2NO_4$

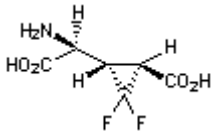
Batch Molecular Weight: 195.12

Physical Appearance: White solid

Solubility: water to 100 mM

Storage: Desiccate at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.6 (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])

Melting Point: Greater than 180°C(Dec)

^{1}H NMR: Consistent with structure

Optical Rotation: $[\alpha]_D$ = +56 (Concentration = 1, Solvent = Water)

Microanalysis:

	Carbon	Hydrogen	Nitrogen	
Theoretical	36.93	3.62	7.18	0 0 0
Found	36.53	3.74	6.95	0 0 0

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Description:

Metabotropic glutamate receptor agonist, exhibits "priming" effect on the monosynaptic reflex.

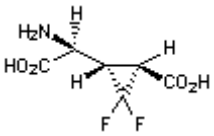
Physical and Chemical Properties:

Batch Molecular Formula: $C_6H_7F_2NO_4$

Batch Molecular Weight: 195.12

Physical Appearance: White solid

Batch Molecular Structure:



Storage: Desiccate at +4°C

Solubility & Usage Info:

water 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* (1996) Pharmacological activities of fluoride CCG derivatives: discovery of a novel agonist for metabotropic glutamate receptors. Soc.Neurosci.Abstr. ***22*** 412.3.

Saitoh *et al* (1998) Potentiation by DL-α-aminopimelate of a novel mGluR agonist (L-F_2CCG-I) on the monosynaptic excitation in the rat spinal cord. Br.J.Pharmacol. ***123*** 771. PMID: 9517398.

Ishida and Shinozaki (1999) Inhibition of uptake and release of a novel mGluR agonist (L-F_2CCG-I) by anion transport blockers in the rat spinal cord. Neuropharmacology ***38*** 1531. PMID: 10530815.

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