

Product Name: LY 379268

Catalog No.: 2453

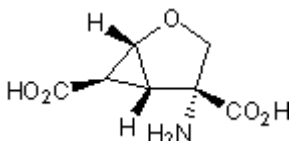
Batch No.: 9

CAS Number: 191471-52-0

IUPAC Name: (1*R*,4*R*,5*S*,6*R*)-4-Amino-2-oxabicyclo[3.1.0]hexane-4,6-dicarboxylic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₇H₉NO₅
Batch Molecular Weight: 187.15
Physical Appearance: White solid
Solubility: water to 20 mM
 1eq. NaOH to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.3 (Pyridine:Acetic acid:Water:Butanol [3:8:11:22])
Chiral HPLC: Shows >99.9% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: [α]_D = -78.2 (Concentration = 1, Solvent = Water)
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	44.92	4.85	7.48
Found	44.59	5.01	7.33

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

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Description:

Highly selective group II mGlu receptor agonist (EC₅₀ values are 2.69 and 4.48 nM for hmGlu₂ and hmGlu₃ respectively) that displays > 80-fold selectivity over group I and group III receptors. Provides protection against NMDA-mediated cell death in vitro and offers almost complete protection against CA1 hippocampal damage following global ischemia in gerbils. Orally and systemically active. Caged LY 379268 is also available (Cat. No. 3332).

Physical and Chemical Properties:

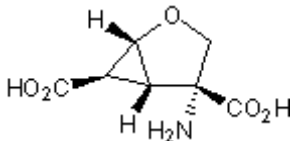
Batch Molecular Formula: C₇H₉NO₅

Batch Molecular Weight: 187.15

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Bond et al (1999) LY379268, a potent and selective group II metabotropic glutamate receptor agonist, is neuroprotective in gerbil global, but not focal cerebral ischaemia. *Neurosci.Lett.* **273** 191. PMID: 10515191.

Bond et al (2000) Neuroprotective effects of LY379268, a selective mGlu_{2/3} receptor agonist: investigations into possible mechanisms of action in vivo. *J.Pharmacol.Exp.Ther.* **294** 800. PMID: 10945827.

Collado et al (2002) (2*S*,1'*S*,2'*S*,3'*R*)-2-(2'-carboxy-3'-methylcyclopropyl) glycine is a potent and selective metabotropic group 2 agonist with anxiolytic properties. *J.Med.Chem.* **45** 3619. PMID: 12166935.

Storage: Store at +4°C

Solubility & Usage Info:

water to 20 mM
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.

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