

Product Name: (RS)-AMPA

Catalog No.: 0169

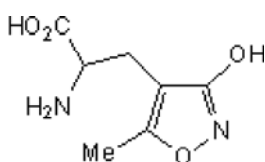
Batch No.: 26

CAS Number: 74341-63-2

IUPAC Name: (RS)- α -Amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₇H₁₀N₂O₄.H₂O
Batch Molecular Weight: 204.19
Physical Appearance: White solid
Solubility: water to 10 mM with gentle warming
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.43 (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])
HPLC: Shows 99.9% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	41.18	5.92	13.72
Found	41.17	5.66	13.48

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

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CAS Number: 74341-63-2

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Description:

Prototypical and defining agonist for the AMPA subgroup of ionotropic glutamate receptors. Active Enantiomer, Inactive Enantiomer and Hydrobromide Salt also available.

Physical and Chemical Properties:

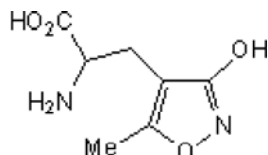
Batch Molecular Formula: C₇H₁₀N₂O₄.H₂O

Batch Molecular Weight: 204.19

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water to 10 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.

References:

Honore *et al* (1982) The binding of ³H-AMPA, a structural analogue of glutamic acid, to rat brain membranes. *J.Neurochem.* **38** 173. PMID: 6125564.

Krogsgaard-Larsen *et al* (1980) New class of glutamate agonist structurally related to ibotenic acid. *Nature* **284** 64. PMID: 6101908.

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