

Certificate of Analysis

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Product Name: (RS)-AMPA hydrobromide

Catalog No.: 1074

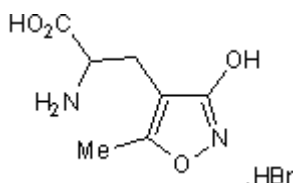
Batch No.: 6

CAS Number: 171259-81-7

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₇H₁₀N₂O₄.HBr
Batch Molecular Weight: 267.08
Physical Appearance: White solid
Solubility: water to 10 mM with gentle warming
Storage: Desiccate at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.46 (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])
HPLC: Shows 99.5% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	31.48	4.15	10.49
Found	31.42	4.19	10.23

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

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

Description:

More water soluble hydrobromide salt of (RS)-AMPA (Cat. No. 0169).

Physical and Chemical Properties:

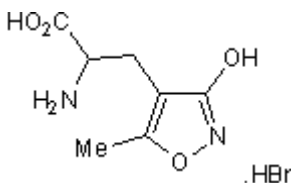
Batch Molecular Formula: C₇H₁₀N₂O₄.HBr

Batch Molecular Weight: 267.08

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at +4°C

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:

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

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.

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