

Certificate of Analysis

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Product Name: HomoAMPA

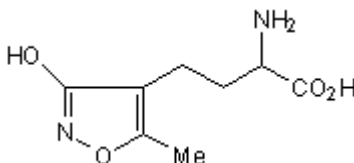
Catalog No.: 1026

Batch No.: 1

IUPAC Name: 2-Amino-4-(3-hydroxy-5-methylisoxazole-4-yl)butyric acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₈H₁₂N₂O₄
Batch Molecular Weight: 200.19
Physical Appearance: White crystalline solid
Solubility: 1eq. NaOH to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.55 (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])
Melting Point: At 235°C(Dec)
¹H NMR: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen		
Theoretical	48	6.04	13.99	0	0
Found	47.83	6.07	13.94	0	0

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

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Description:

The higher homolog of AMPA, this compound is completely inactive at ionotropic glutamate receptors but instead is a relatively potent and highly mGlu₆ subtype-selective metabotropic glutamate receptor agonist.

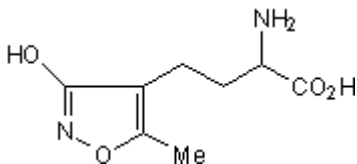
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Storage: Store at RT

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:

Brauner-Osbourne et al (1996) A new highly selective metabotropic excitatory amino acid agonist: 2-amino-4-(3-hydroxy-5-methylisoxazole-4-yl)butyric acid. *J.Med.Chem.* **39** 3188. PMID: 8759641.

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