

Product Name: Ibotenic acid

Catalog No.: 0285

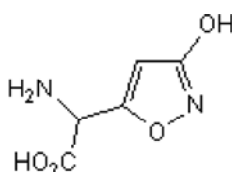
Batch No.: 37

CAS Number: 2552-55-8

IUPAC Name: α -Amino-(3-hydroxy-5-isoxazolyl)acetic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₅H₆N₂O₄.H₂O
Batch Molecular Weight: 176.13
Physical Appearance: Off White solid
Solubility: water to 10 mM
 1.1eq. NaOH to 100 mM
Storage: Desiccate at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.4 (Butanol/Acetic acid/Water 4:1:1)
HPLC: Shows 100% purity
¹H NMR: Consistent with structure
 Mass Spectrum: Consistent with structure

Microanalysis:

| | Carbon | Hydrogen | Nitrogen |
|-------------|--------|----------|----------|
| Theoretical | 34.1 | 4.58 | 15.91 |
| Found | 34.16 | 4.6 | 15.82 |

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

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CAS Number: 2552-55-8

IUPAC Name: α -Amino-(3-hydroxy-5-isoxazolyl)acetic acid

Description:

NMDA and metabotropic glutamate receptor agonist.

Physical and Chemical Properties:

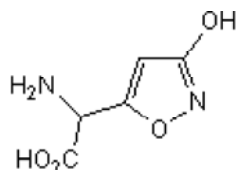
Batch Molecular Formula: C₅H₆N₂O₄.H₂O

Batch Molecular Weight: 176.13

Physical Appearance: Off White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Desiccate at -20°C

Solubility & Usage Info:

water to 10 mM

1.1eq. NaOH to 100 mM

CAUTION - Solutions of this product should be made up and used on the same day. Solutions that are frozen should be aliquoted and used within 1 week.

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:

Pin and Duvoisin (1995) The metabotropic glutamate receptors: structure and functions. *Neuropharmacology* **34** 1. PMID: 7623957.

Nakanishi (1992) Molecular diversity of glutamate receptors and implications for brain functions. *Science* **258** 597. PMID: 1329206.

Watkins and Evans (1981) Excitatory amino acid transmitters. *Annu.Rev.Pharmacol.Toxicol.* **21** 165. PMID: 6112965.

Johnston et al (1968) Central actions of ibotenic acid and muscimol. *Biochem.Pharmacol.* **17** 2488. PMID: 5752907.

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