

**Product Name:** CI-HIBO

**Catalog No.:** 1673

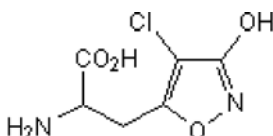
**Batch No.:** 1

CAS Number: 909400-43-7

IUPAC Name: (RS)-2-Amino-3-(4-chloro-3-hydroxy-5-isoxazolyl)propionic acid

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>6</sub>H<sub>7</sub>ClN<sub>2</sub>O<sub>4</sub>.H<sub>2</sub>O  
**Batch Molecular Weight:** 224.61  
**Physical Appearance:** Pale brown solid  
**Solubility:** water to 20 mM  
 phosphate buffered saline to 20 mM  
 1eq. NaOH to 100 mM  
**Storage:** Store at RT  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.5 (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])  
**Melting Point:** Between 184 - 187°C(dec)  
**HPLC:** Shows >99.9% purity  
<sup>1</sup>H NMR: Consistent with structure

	Carbon Hydrogen Nitrogen		
	Theoretical	Found	
	32.09	32.19	12.47
	4.04	4.02	12.37

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

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**Description:**

Subtype-selective and strongly desensitizing AMPA receptor agonist; selective for GluA1 and GluA2 subunit-containing receptors (EC<sub>50</sub> values are 4.7, 1.7, 2700 and 1300 μM for rat recombinant homomeric GluA1-4 receptors respectively). Please refer to IUPHAR Guide to Pharmacology for the most recent naming conventions.

**Physical and Chemical Properties:**

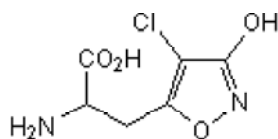
Batch Molecular Formula: C<sub>6</sub>H<sub>7</sub>ClN<sub>2</sub>O<sub>4</sub>.H<sub>2</sub>O

Batch Molecular Weight: 224.61

Physical Appearance: Pale brown solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**Storage:** Store at RT

**Solubility & Usage Info:**

water to 20 mM  
phosphate buffered saline 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.

**References:**

**Bjerrum et al** (2003) Design, synthesis, and pharmacology of a highly subtype-selective GluR1/2 agonist, (RS)-2-amino-3-(4-chloro-3-hydroxy-5-isoxazolyl)propionic acid (CI-HIBO). *J.Med.Chem.* **46** 2246. PMID: 12747796.

**Kristensen et al** (2002) Pharmacological characterization of 4-chlorohomoibotenic acid: a GluR1 and -2 subtype-selective agonist. *Soc.Neurosci.Abstr.* 540.7.

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