

Certificate of Analysis

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Product Name: HexylHIBO

Catalog No.: 1749

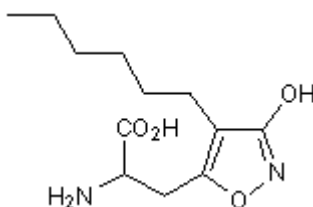
Batch No.: 2

CAS Number: 334887-43-3

IUPAC Name: α -Amino-4-hexyl-2,3-dihydro-3-oxo-5-isoxazolepropanoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₂H₂₀N₂O₄
Batch Molecular Weight: 256.3
Physical Appearance: Cream solid
Solubility: 1eq. NaOH to 20 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: Between 224 - 232°C(dec)
HPLC: Shows 100% purity
¹H NMR: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	56.24	7.86	10.93
Found	56.2	7.9	10.78

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

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Description:

Group I mGlu receptor antagonist (K_i values are 140 and 110 μ M at mGlu_{1a} and mGlu_{5a} receptors respectively). Decreases sEPSCs in rat pyramidal neurons in vitro.

Physical and Chemical Properties:

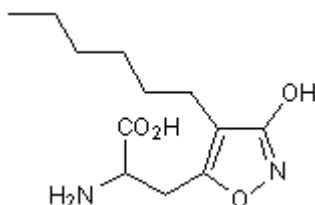
Batch Molecular Formula: C₁₂H₂₀N₂O₄

Batch Molecular Weight: 256.3

Physical Appearance: Cream solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

1eq. NaOH to 20 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:

Madsen et al (2001) Synthesis and pharmacology of 3-isoxazolol amino acids as selective antagonists at group I metabotropic glutamic acid receptors. *J.Med.Chem.* **44** 1051. PMID: 11297452.

Bandrowski et al (2003) Baseline glutamate levels affect group I and II mGluRs in layer V pyramidal neurons of rat sensorimotor cortex. *J.Neurophysiol.* **89** 1308. PMID: 12626613.

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