

Certificate of Analysis

Product Name: Isoguvacine hydrochloride

Catalog No.: 0235

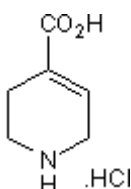
Batch No.: 21

CAS Number: 68547-97-7

IUPAC Name: 1,2,3,6-Tetrahydro-4-pyridinecarboxylic acid hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₆H₉NO₂.HCl
Batch Molecular Weight: 163.6
Physical Appearance: White solid
Solubility: water to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.32 (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])
Melting Point: Greater than 260°C(dec)
HPLC: Shows 100% purity
¹H NMR: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	44.05	6.16	8.56
Found	44.14	6.26	8.39

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

Product Information

www.tocris.com

Product Name: Isoguvacine hydrochloride

Catalog No.: 0235

Batch No.: 21

CAS Number: 68547-97-7

IUPAC Name: 1,2,3,6-Tetrahydro-4-pyridinecarboxylic acid hydrochloride

Description:

Specific GABA_A receptor agonist. Suppresses low magnesium induced seizure like events in organotypic hippocampal brain slices.

Physical and Chemical Properties:

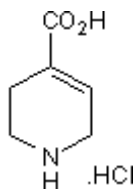
Batch Molecular Formula: C₆H₉NO₂.HCl

Batch Molecular Weight: 163.6

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water 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:

Krogsgaard-Larsen et al (1978) Structure-activity studies on the inhibition of GABA binding to rat brain membranes by muscimol and related compounds. *J.Neurochem.* **30** 1377. PMID: 670980.

Krogsgaard-Larsen et al (1979) Dihydromuscimol, thiomuscimol and related heterocyclic compounds as GABA analogues. *J.Neurochem.* **32** 1717. PMID: 448364.

Wahab et al (2009) Effects of gamma-aminobutyric acid (GABA) agonists and a GABA uptake inhibitor on pharmaco-resistant seizure like events in organotypic hippocampal slice cultures. *Epilepsy Res.* **86** 113. PMID: 19535226.

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

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel: +1 612 379 2956