

Certificate of Analysis

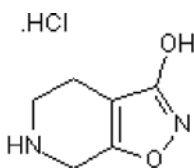
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Product Name: THIP hydrochloride
CAS Number: 85118-33-8
IUPAC Name: 4,5,6,7-Tetrahydroisoxazolo[5,4-c]pyridin-3-ol hydrochloride

Catalog No.: 0807 **Batch No.:** 22
EC Number: 264-963-0

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₆H₈N₂O₂.HCl.
Batch Molecular Weight: 176.6
Physical Appearance: Off White solid
Solubility: water to 100 mM
DMSO to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100.0% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	40.81	5.14	15.86
Found	40.86	5.16	15.81

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

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IUPAC Name: 4,5,6,7-Tetrahydroisoxazolo[5,4-c]pyridin-3-ol hydrochloride

Description:

THIP hydrochloride is a systemically active GABA_A receptor agonist and GABA_{A-ρ} receptor antagonist. Displays antinociceptive, anticonvulsant and sedative effects. Hypnotic agent that enhances delta activity within non-REM sleep in rats.

Physical and Chemical Properties:

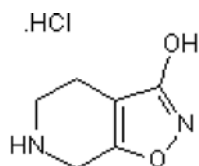
Batch Molecular Formula: C₆H₈N₂O₂.HCl.

Batch Molecular Weight: 176.6

Physical Appearance: Off White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water to 100 mM

DMSO 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:

Huckle (2004) Gaboxadol. Lundbeck/Merck Curr.Opin.Investig.Drugs **5** 766. PMID: 15298075.

Johnston (1996) GABA_C receptors: relatively simple transmitter-gated ion channels? TIPS **17** 319. PMID: 8885697.

Krogsgaard-Larson (1984) Chemistry and pharmacology of the GABA antagonists THIP (Gaboxadol) and isoguvacine. Drugs Future. **9** 597.

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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