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TOCRIS

Print Date: Feb 29th 2024

Certificate of Analysis

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Product Name: **THIP hydrochloride** **Catalog No.: 0807** **Batch No.: 25**

CAS Number: 85118-33-8 EC Number: 264-963-0

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_6H_8N_2O_2$.HCl.

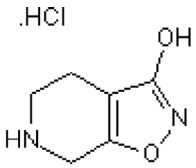
Batch Molecular Weight: 176.6

Physical Appearance: 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

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	40.81	5.14	15.86
Found	40.89	5.12	15.71

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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:

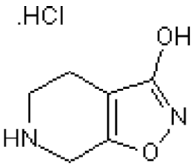
Batch Molecular Formula: $C_6H_8N_2O_2$.HCl.

Batch Molecular Weight: 176.6

Physical Appearance: 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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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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