

**Product Name:** THIP hydrochloride

**Catalog No.:** 0807 **Batch No.:** 16

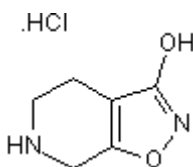
**CAS Number:** 85118-33-8

**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<sub>6</sub>H<sub>8</sub>N<sub>2</sub>O<sub>2</sub>.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 98.9% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	40.81	5.14	15.86
Found	40.82	5.14	15.78

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:**

Systemically active GABA<sub>A</sub> receptor agonist and GABA<sub>C</sub> receptor antagonist. Displays antinociceptive, anticonvulsant and sedative effects. Hypnotic agent that enhances delta activity within non-REM sleep in rats.

**Physical and Chemical Properties:**

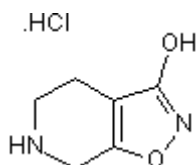
Batch Molecular Formula: C<sub>6</sub>H<sub>8</sub>N<sub>2</sub>O<sub>2</sub>.HCl

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. 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-Larson** (1983) 4,5,6,7-Tetrahydroisothiazolo[5,4-c]pyridin-3-ol and related analogues of THIP. Synthesis and biological activity. *J.Med.Chem.* **26** 895. PMID: 6304315.

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

**Johnston** (1996) GABA<sub>C</sub> receptors: relatively simple transmitter-gated ion channels? *TIPS* **17** 319. PMID: 8885697.

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

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