

## Tiagabine HCl, GABA transporter 1 (GAT1) inhibitor

Catalog	Unit
TBI4384-10MG	10 mg
TBI4384-50MG	50 mg

### Product Details

**Formal Name:** (3R)-1-[4,4-Bis(3-methylthiophen-2-yl)but-3-enyl]piperidine-3-carboxylic acid hydrochloride

**Alternate Names:** NO-325

**Molecular Formula:** C<sub>20</sub>H<sub>25</sub>NO<sub>2</sub>S<sub>2</sub>·HCl

**Formula Weight:** 412.00

**CAS Number:** 145821-59-6

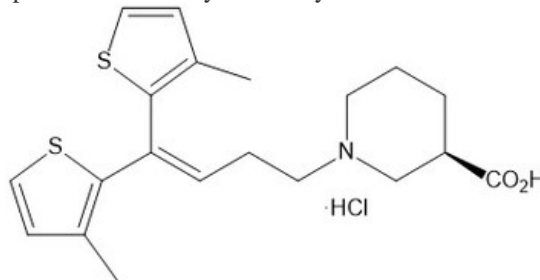
**Purity:** >98%

**Formulation:** Powder

**Solubility:** Soluble in DMSO (up to at least 25 mg/ml), in Ethanol (up to at least 25 mg/ml) or in Water (up to at least 30 mg/ml)

**Storage:** -20°C

**Stability:** ≥ 1 year.



### Applications

GABA transporter 1 (GAT1) inhibitor

### Functions

Tiagabine is a clinically useful anticonvulsant. It is also used to treat anxiety/panic disorder and neuropathic pain. Inhibits GABA-reuptake (IC<sub>50</sub> [3H]GABA uptake = 67 nM) via inhibiting GABA transporter 1(GAT1) blocking both neuronal and glial GABA re-uptake.

### Application Procedures

First dissolved in DMSO (up to at least 25 mg/ml), in Ethanol (up to at least 25 mg/ml) or in Water (up to at least 30 mg/ml), then diluted to aqueous buffer. Solutions in DMSO, ethanol or distilled water may be stored at -20°C for up to 3 months.

**For research use only.**