

**Product Name:** Tracazolate hydrochloride

**Catalog No.:** 1558

**Batch No.:** 1

CAS Number: 1135210-68-2

EC Number: 255-214-9

IUPAC Name: 4-(Butylamino)-1-ethyl-6-methyl 1*H*-pyrazolo[3,4*b*]pyridine-5-ethylcarboxylate hydrochloride

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>16</sub>H<sub>24</sub>N<sub>4</sub>O<sub>2</sub>.HCl.¼H<sub>2</sub>O

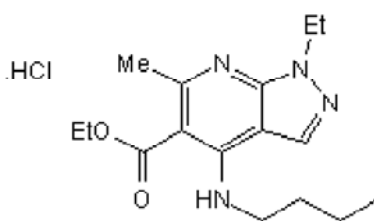
**Batch Molecular Weight:** 345.35

**Physical Appearance:** White solid

**Solubility:** 1eq. HCl to 100 mM

**Storage:** Desiccate at RT

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.3 (Ethyl acetate:Petroleum ether [4:6])

**Melting Point:** Between 144 - 145°C

**HPLC:** Shows 100% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	55.65	7.44	16.22
Found	55.56	7.22	16.19

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

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**Description:**

GABA<sub>A</sub> receptor modulator. Can potentiate or inhibit recombinant GABA<sub>A</sub> function depending on subunit combination. Enhances native GABA<sub>A</sub> receptor function and is anxiolytic following systemic administration in vivo.

**Physical and Chemical Properties:**

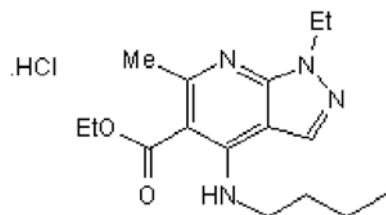
Batch Molecular Formula: C<sub>16</sub>H<sub>24</sub>N<sub>4</sub>O<sub>2</sub>.HCl.¼H<sub>2</sub>O

Batch Molecular Weight: 345.35

Physical Appearance: White solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**Storage:** Desiccate at RT

**Solubility & Usage Info:**

1eq. HCl to 100 mM

**CAUTION** - This product is hygroscopic and we recommend that it is desiccated upon arrival. Solutions should be made up as soon as the vial is opened.

**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:**

**Thompson et al** (2002) Tracazolate reveals a novel type of allosteric interaction with recombinant  $\gamma$ -aminobutyric acid<sub>A</sub> receptors. *Mol.Pharmacol.* **61** 861. PMID: 11901225.

**Meiners and Salama** (1982) Enhancement of benzodiazepine and GABA binding by the novel anxiolytic, tracazolate. *Eur.J.Pharmacol.* **78** 315. PMID: 6121710.

**Patel and Malick** (1982) Pharmacological properties of tracazolate: a new non-benzodiazepine anxiolytic agent. *Eur.J.Pharmacol.* **78** 323. PMID: 6121711.

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