

**Product Name:** Trazodone hydrochloride

**Catalog No.:** 6336

**Batch No.:** 1

CAS Number: 25332-39-2

EC Number: 246-855-5

IUPAC Name: 2-[3-[4-(3-Chlorophenyl)-1-piperazinyl]propyl]-1,2,4-triazolo[4,3-a]pyridin-3(2H)-one hydrochloride

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>19</sub>H<sub>22</sub>ClN<sub>5</sub>O.HCl.½H<sub>2</sub>O

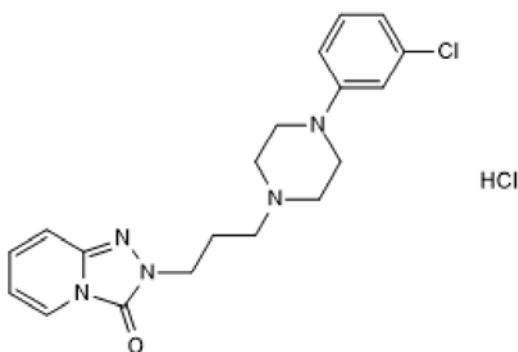
**Batch Molecular Weight:** 417.33

**Physical Appearance:** White solid

**Solubility:** water to 20 mM  
DMSO to 50 mM

**Storage:** Store at RT

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.1% purity

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

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	54.68	5.8	16.78
Found	54.6	5.62	16.66

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

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**Description:**

Trazodone hydrochloride is a 5-HT<sub>2A</sub> and α<sub>1</sub> adrenoceptor antagonist. Enhances neuronal differentiation of mouse and human neural progenitor cells. Also inhibits PERK/eIF2α-P-mediated reduction in protein synthesis and restores memory deficits in a mouse dementia model. Antidepressant and neuroprotectant.

**Physical and Chemical Properties:**

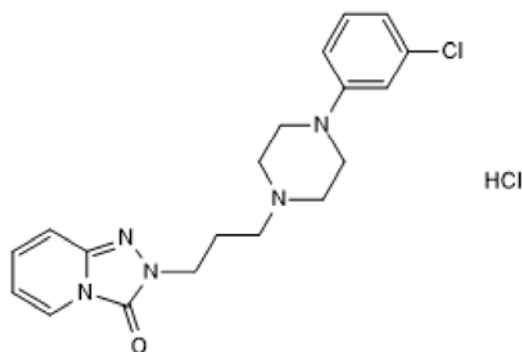
Batch Molecular Formula: C<sub>19</sub>H<sub>22</sub>ClN<sub>5</sub>O.HCl.½H<sub>2</sub>O

Batch Molecular Weight: 417.33

Physical Appearance: White solid

**Minimum Purity:** ≥99%

**Batch Molecular Structure:**



**Storage:** Store at RT

**Solubility & Usage Info:**

water to 20 mM

DMSO to 50 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:**

**Bortolotto et al** (2017) Proneurogenic effects of traz. in murine and human neural progenitor cells. *ACS Chem.Neurosci.* **8** 2027. PMID: 28636360.

**Halliday et al** (2017) Repurposed drugs targeting eIF2α-P-mediated translational repression prevent neurodegeneration in mice. *Brain* **140** 1768. PMID: 28430857.

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