

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: C₁₉H₂₂ClN₅O.HCl.½H₂O

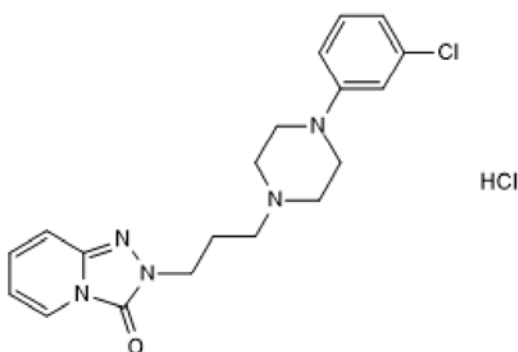
Batch Molecular Weight: 417.33

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 99.8% purity

¹H 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:

5-HT_{2A} and α₁ 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:

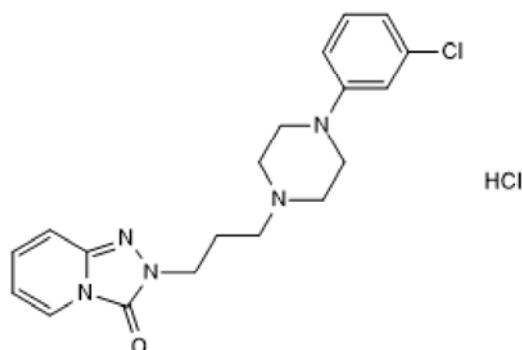
Batch Molecular Formula: C₁₉H₂₂ClN₅O.HCl.½H₂O

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 trazodone 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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