**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:** \( \text{C}_{19}\text{H}_{22}\text{ClN}_{5}\text{O.HCl.} \frac{1}{2}\text{H}_{2}\text{O} \)
   - **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:**

![Molecular Structure](image)

2. **ANALYTICAL DATA**

   - **HPLC:** Shows 99.8% purity
   - **\(^1\text{H NMR}:** Consistent with structure
   - **Mass Spectrum:** Consistent with structure
   - **Microanalysis:**

     | Element | Theoretical | Found |
     |---------|-------------|-------|
     | C       | 54.68       | 54.6  |
     | H       | 5.8         | 5.62  |
     | N       | 16.78       | 16.66 |

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

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**Description:**
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>6</sub>O.HCl.½H<sub>2</sub>O
- **Batch Molecular Weight:** 417.33
- **Physical Appearance:** White solid
- **Minimum Purity:** >99%

**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:**