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:** \( C_{19}H_{22}ClN_5O.HCl.\frac{1}{2}H_2O \)

**Batch Molecular Weight:** 417.33

**Physical Appearance:** White solid

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

**Storage:** Store at RT

2. ANALYTICAL DATA

**HPLC:** Shows 99.1% purity

**\(^1\)H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

<table>
<thead>
<tr>
<th>Element</th>
<th>Theoretical</th>
<th>Found</th>
<th>Percent Difference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>54.68</td>
<td>54.6</td>
<td>0.68</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>5.8</td>
<td>5.62</td>
<td>0.18</td>
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<tr>
<td>Nitrogen</td>
<td>16.78</td>
<td>16.66</td>
<td>0.12</td>
</tr>
</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
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Description:
Trazodone hydrochloride is a 5-HT\textsubscript{2A} and α\textsubscript{1} 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\textsubscript{19}H\textsubscript{22}ClN\textsubscript{6}O.HCl.\textsubscript{½}H\textsubscript{2}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: