Product Name: Trazodone hydrochloride
Catalog No.: 6336
Batch No.: 1
CAS Number: 25332-39-2
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: $\text{C}_{19}\text{H}_{22}\text{ClN}_5\text{O}_2\cdot\text{HCl}\cdot\frac{1}{2}\text{H}_2\text{O}$
   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:

   ![](image)

2. ANALYTICAL DATA

   HPLC: Shows 99.8% purity
   $^1\text{H}$ NMR: Consistent with structure
   Mass Spectrum: Consistent with structure
   Microanalysis:
   
<table>
<thead>
<tr>
<th>Element</th>
<th>Theoretical</th>
<th>Found</th>
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</thead>
<tbody>
<tr>
<td>C</td>
<td>54.68</td>
<td>54.6</td>
</tr>
<tr>
<td>H</td>
<td>5.8</td>
<td>5.62</td>
</tr>
<tr>
<td>N</td>
<td>16.78</td>
<td>16.66</td>
</tr>
</tbody>
</table>

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

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Product Name: Trazodone hydrochloride
CAS Number: 25332-39-2
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Description:
5-HT<sub>2A</sub> and α<sub>1</sub> adrenoeceptor 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.0.5H<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: