Product Name: Zotepine
CAS Number: 26615-21-4
IUPAC Name: 2-[(8-Chlorodibenzo(Z)[b,f]thiepin-10-yl)oxy]-N,N-dimethylethanamine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( C_{18}H_{18}ClNOS \)
Batch Molecular Weight: 331.86
Physical Appearance: White solid
Solubility: DMSO to 50 mM
Solubility: ethanol to 50 mM
Storage: Store at RT

2. ANALYTICAL DATA

Melting Point: Between 90 - 92°C
HPLC: Shows 99.7% purity
\(^1\)H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis: Carbon Hydrogen Nitrogen

<table>
<thead>
<tr>
<th></th>
<th>Theoretical</th>
<th>Found</th>
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<tbody>
<tr>
<td>Carbon</td>
<td>65.15</td>
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<tr>
<td>Hydrogen</td>
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<tr>
<td>Nitrogen</td>
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<td>4.28</td>
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</tbody>
</table>
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Description:
5-HT2A receptor and dopamine D2 receptor antagonist (K values are 0.69 and 2.3 nM respectively). Also a potent histamine H1 receptor antagonist (IC50 = 8.0 nM). Atypical antipsychotic; exhibits antidepressive and anxiolytic effects in vivo.

Physical and Chemical Properties:
Batch Molecular Formula: C18H14ClNOS
Batch Molecular Weight: 331.86
Physical Appearance: White solid
Minimum Purity: >99%

Batch Molecular Structure:

Storage: Store at RT

Solubility & Usage Info:
DMSO to 50 mM  
ethanol 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:


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

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