Product Name: Olanzapine  
Catalog No.: 4349  
Batch No.: 2

1. PHYSICAL AND CHEMICAL PROPERTIES

- **Batch Molecular Formula:** C₁₇H₂₀N₄S
- **Batch Molecular Weight:** 312.43
- **Physical Appearance:** Yellow solid
- **Solubility:** DMSO to 100 mM  
1eq. HCl to 100 mM  
ethanol to 10 mM
- **Storage:** Store at +4°C

2. ANALYTICAL DATA

- **Melting Point:** Between 192 - 196°C
- **HPLC:** Shows 99.9% purity
- **¹H NMR:** Consistent with structure
- **Mass Spectrum:** Consistent with structure
- **Microanalysis:**

<table>
<thead>
<tr>
<th></th>
<th>Theoretical</th>
<th>Found</th>
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<tbody>
<tr>
<td>Carbon</td>
<td>65.35</td>
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<tr>
<td>Hydrogen</td>
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<td>6.64</td>
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<tr>
<td>Nitrogen</td>
<td>17.92</td>
<td>18.25</td>
</tr>
</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
Product Name: Olanzapine
Catalog No.: 4349
Batch No.: 2

CAS Number: 132539-06-1
IUPAC Name: 2-Methyl-4-(4-methyl-1-piperazinyl)-10H-thieno[2,3-b][1,5]benzodiazepine

Description:
Antagonist of 5-HT2A and dopamine D2 receptors (Kᵢ values are 4 and 11 nM respectively). Also displays affinity for a range of other receptors including D1 and D4, 5-HT2C, α₁, H₁ and M₁-4 receptors (Kᵢ values range between 1.9 and 31 nM). Atypical antipsychotic. Displays anticholinergic properties.

Physical and Chemical Properties:
Batch Molecular Formula: C₁₇H₂₀N₄S
Batch Molecular Weight: 312.43
Physical Appearance: Yellow solid

Minimum Purity: >99%

Batch Molecular Structure:

Storage: Store at +4°C

Solubility & Usage Info:
DMSO to 100 mM
1eq. HCl to 100 mM
ethanol to 10 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: