1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{18}\text{H}_{19}\text{ClN}_4 \)
Batch Molecular Weight: 326.83
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
ethanol to 50 mM
2eq. HCl to 50 mM with gentle warming
Storage: Store at RT

2. ANALYTICAL DATA

Melting Point: Between 183 - 185°C
HPLC: Shows 99.3% purity
\(^1\text{H} \text{NMR:} \) Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theoretical</td>
<td>66.15</td>
<td>5.86</td>
<td>17.14</td>
</tr>
<tr>
<td>Found</td>
<td>66.55</td>
<td>5.89</td>
<td>17.12</td>
</tr>
</tbody>
</table>
Product Name: Clozapine
Catalog No.: 0444
Batch No.: 6
EC Number: 227-313-7

Description:
Clozapine is an atypical antipsychotic drug, with a much lower tendency to cause extrapyramidal side effects than conventional neuroleptics. Displays a broad range of pharmacological actions; the antipsychotic effects are thought to be mediated principally by 5-HT2A/2C and dopamine receptor blockade (K values are 21, 170, 170, 230 and 330 nM for D4, D3, D1, D2 and D5 receptors respectively).

Physical and Chemical Properties:
Batch Molecular Formula: C18H19ClN4
Batch Molecular Weight: 326.83
Physical Appearance: Yellow solid
Minimum Purity: ≥99%

Storage: Store at RT

Solubility & Usage Info:
DMSO to 100 mM
ethanol to 50 mM
2eq.HCl to 50 mM with gentle warming

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:
SOLID: 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: