Product Name: N-Desmethyclozapine
CAS Number: 6104-71-8
IUPAC Name: 8-Chloro-11-(1-piperazinyl)-5H-dibenzo[b,e][1,4]diazepine

1. PHYSICAL AND CHEMICAL PROPERTIES
   
   Batch Molecular Formula: C_{17}H_{17}ClN_{4}·\frac{1}{4}H_{2}O
   
   Batch Molecular Weight: 317.3
   
   Physical Appearance: Yellow solid
   
   Solubility: ethanol to 100 mM
              DMSO to 100 mM
   
   Storage: Store at RT
   
   Batch Molecular Structure:

2. ANALYTICAL DATA
   
   TLC: R_f = 0.3 (Ethyl acetate:Methanol [1:1])
   
   Melting Point: Between 116 - 130°C
   
   HPLC: Shows 99.4% purity
   
   ¹H NMR: 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>64.35</td>
<td>5.56</td>
<td>17.66</td>
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<td>Found</td>
<td>64.46</td>
<td>5.34</td>
<td>17.44</td>
</tr>
</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
**Product Name:** N-Desmethylclozapine  
**Catalog No.:** 1007  
**Batch No.:** 2

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**Description:**
A major metabolite of clozapine; a potent and selective 5-HT₂C serotonin receptor antagonist.

**Physical and Chemical Properties:**
- **Batch Molecular Formula:** C₁₁H₁₇ClN₄·¼H₂O
- **Batch Molecular Weight:** 317.3
- **Physical Appearance:** Yellow solid
- **Minimum Purity:** >99%

**Solubility & Usage Info:**
- ethanol to 100 mM
- DMSO to 100 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.

**Other Information:**
**INFORMATION FOR CUSTOMERS IN CANADA ONLY**
This product is a Schedule IV CDSA controlled substance and customers in Canada require an import permit to purchase this material.

**References:**

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