1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:**
\[ \text{C}_{20}\text{H}_{32}\text{N}_2\text{O}.2\text{HCl}.\frac{3}{4}\text{H}_2\text{O} \]

**Batch Molecular Weight:** 402.91

**Physical Appearance:** Pale yellow solid

**Solubility:**
- Water to 50 mM
- DMSO to 20 mM with gentle warming

**Storage:** Desiccate at RT

**Batch Molecular Structure:**

![Molecular Structure](image)

2. ANALYTICAL DATA

**TLC:**
- \( R_f = 0.32 \) (Chloroform:Methanol:Ammonia soln. [9:1:0.1])

**HPLC:**
- Shows 99.5% purity

**\(^1\)H NMR:**
- Consistent with structure

**Mass Spectrum:**
- Consistent with structure

**Microanalysis:**

<table>
<thead>
<tr>
<th>Element</th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>59.62</td>
<td>59.56</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>8.88</td>
<td>8.48</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>6.95</td>
<td>6.95</td>
</tr>
</tbody>
</table>

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

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**Product Name:** JNJ 5207852 dihydrochloride  
**Catalog No.:** 4020  
**Batch No.:** 1

### CAS Number: 398473-34-2  
**IUPAC Name:** 1-[3-[4-(1-Piperidinylmethyl)phenoxy]propyl]piperidine hydrochloride

### Description:
High affinity histamine H₃ receptor neutral antagonist (pKᵢ values are 8.9 and 9.2 in rat and human respectively). Brain penetrant and orally active. Has 3- and 100-fold higher affinity than thioperamide (Cat. No. 0644) for rat and human H₃ receptors respectively. Suppresses slow-wave sleep; exhibits wake-promoting effects in rodent arousal models.

### Physical and Chemical Properties:
- **Batch Molecular Formula:** C₂₀H₂₇N₂O.2HCl.¾H₂O  
- **Batch Molecular Weight:** 402.91  
- **Physical Appearance:** Pale yellow solid

### Storage:  
Desiccate at RT

### Solubility & Usage Info:
- water to 50 mM  
- DMSO to 20 mM with gentle warming

**USE WITH CARE; NOT FULLY TESTED - YOUR SUBLICENSE UNDER CERTAIN PATENT RIGHTS OF ORTHO-MCNEIL-JANSSEN PHARMACEUTICAL, INC. RESTRICTS USE TO INTERNAL RESEARCH ONLY - MAY NOT BE USED IN HUMANS - MAY NOT BE SOLD, TRANSFERRED, OR USED IN COMMERCIAL SERVICES

### 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: