1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{20}\text{H}_{32}\text{N}_{2}\text{O}.2\text{HCl.}0.4\text{H}_{2}\text{O} \)

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

2. ANALYTICAL DATA

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

HPLC: Shows 99.5% purity

\(^1\text{H NMR:} \) Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

<table>
<thead>
<tr>
<th></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
**Product Information**

**Product Name**: JNJ 5207852 dihydrochloride

**CAS Number**: 1782228-76-5

**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: C₂₀H₃₂N₂O₂.HCl.¾H₂O
Batch Molecular Weight: 402.91
Physical Appearance: Pale yellow solid

**Minimum Purity**: >99%

**Storage**: Desiccate at RT

**Solubility & Usage Info**: water to 50 mM
DMSO to 20 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).

**Licensing Information**: Sold with the permission of Ortho-McNeil-Janssen Pharmaceuticals, Inc.

**References**: