1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $\text{C}_{24}\text{H}_{40}\text{N}_{2}$

Batch Molecular Weight: 356.59

Physical Appearance: Off-white solid

Solubility: ethanol to 50 mM
DMSO to 50 mM with gentle warming

Storage: Store at RT

Batch Molecular Structure:

![Molecular Structure Image]

2. ANALYTICAL DATA

TLC: $R_f = 0.47$ (Dichloromethane:Methanol [10:1])

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

Mass Spectrum: Consistent with structure

Optical Rotation: $[\alpha]_D = +19$ (Concentration = 1, Solvent = ethanol)

Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theoretical</td>
<td>80.84</td>
<td>11.31</td>
<td>7.85</td>
</tr>
<tr>
<td>Found</td>
<td>80.81</td>
<td>11.45</td>
<td>7.9</td>
</tr>
</tbody>
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Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Product Name: Conessine

CAS Number: 546-06-5
IUPAC Name: \(\text{N, N-Dimethyl-con-5-enin-3-amine}\)

**Description:**
Potent and selective histamine H\(_3\) receptor antagonist (pK\(_a\) values are 7.61 and 8.27 at rat and human H\(_3\) receptors respectively). A steroidal alkaloid that displays in vitro antiplasmodial activity (IC\(_{50}\) = 1.04 \(\mu\)M). Also has high affinity for \(\alpha_2\) adrenoceptors (pK\(_a\) = 7.98).

**Physical and Chemical Properties:**
Batch Molecular Formula: \(\text{C}_{24}\text{H}_{34}\text{N}_2\)
Batch Molecular Weight: 356.59
Physical Appearance: Off-white solid

**Batch Molecular Structure:**

<table>
<thead>
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<th>Storage:</th>
<th>Store at RT</th>
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<tr>
<th>Solubility &amp; Usage Info:</th>
<th>ethanol to 50 mM</th>
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<tbody>
<tr>
<td>DMSO to 50 mM with gentle warming</td>
<td></td>
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</table>

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<tr>
<th>Stability and Solubility Advice:</th>
</tr>
</thead>
<tbody>
<tr>
<td>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).</td>
</tr>
<tr>
<td>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:</td>
</tr>
<tr>
<td>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.</td>
</tr>
<tr>
<td>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.</td>
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</tbody>
</table>

**References:**