1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C_{26}H_{35}N_{7}O_{2} \cdot \frac{1}{4}H_{2}O
Batch Molecular Weight: 482.1
Physical Appearance: Off-white solid
Solubility: DMSO to 100 mM, ethanol to 100 mM
Storage: Store at -20°C

2. ANALYTICAL DATA

TLC: R_f = 0.4 (Chloroform:Methanol [4:1])
HPLC: Shows 97.5% purity
^1H 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>64.77</td>
<td>64.39</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>7.42</td>
<td>7.37</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>20.34</td>
<td>19.97</td>
</tr>
</tbody>
</table>
**Description:**
H₂ antagonist (Kᵦ values are 220 and 280 nM at human and guinea pig H₂ receptors respectively) and precursor for the synthesis of the [¹²⁵I]-iodo derivative.

**Physical and Chemical Properties:**
- **Batch Molecular Formula:** C₂₉H₃₅N₂O₂.¼H₂O
- **Batch Molecular Weight:** 482.1
- **Physical Appearance:** Off-white solid

**Minimum Purity:** >97%

**Batch Molecular Structure:**

**Storage:** Store at -20°C

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

**References:**
