1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{16}\text{H}_{21}\text{N}_{3}\text{O}_{2} \)

Batch Molecular Weight: 287.36

Physical Appearance: Off-white solid

Solubility:
- DMSO to 100 mM
- Ethanol to 100 mM

Storage: Store at +4°C

2. ANALYTICAL DATA

HPLC: Shows 99.8% purity

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

Mass Spectrum: Consistent with structure

Optical Rotation: \([\alpha]_D = -2.2\) (Concentration = 1, Solvent = Methanol)

Microanalysis:

<table>
<thead>
<tr>
<th>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theoretical</td>
<td>66.88</td>
<td>7.37</td>
</tr>
<tr>
<td>Found</td>
<td>66.59</td>
<td>7.09</td>
</tr>
</tbody>
</table>
Product Name: Zolmitriptan  
Catalog No.: 4657  
Batch No.: 1

**CAS Number:** 139264-17-8  
**IUPAC Name:** (4S)-4-((3-(2-(Dimethylamino)ethyl)-1H-indol-5-yl)methyl)-2-oxazolidinone

**Description:**
Potent 5-HT1B/1D/1F agonist (Kᵢ values are 0.63, 5.01 and 63.09 nM for h5-HT₁D, h5-HT₁B and h5-HT₁F receptors respectively). Inhibits trigeminal nerve stimulation-mediated neurogenic plasma protein extravasation in guinea pigs; blocks long excitatory postsynaptic potentials (EPSPs) in a rat model of spinal cord injury.

**Physical and Chemical Properties:**
- **Batch Molecular Formula:** C₁₆H₂₂N₄O₂
- **Batch Molecular Weight:** 287.36
- **Physical Appearance:** Off-white solid
- **Minimum Purity:** >99%
- **Batch Molecular Structure:**

![Molecular Structure](attachment:structure.png)

**Storage:** Store at +4°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:**