1. **PHYSICAL AND CHEMICAL PROPERTIES**

   **Batch Molecular Formula:** \( \text{C}_8\text{H}_8\text{N}_2\text{O}_3\text{S} \)

   **Batch Molecular Weight:** 212.22

   **Physical Appearance:** White crystalline solid

   **Solubility:**
   - Water to 10 mM
   - 1.1 eq. NaOH to 100 mM
   - DMSO to 100 mM
   - Ethanol to 25 mM

   **Storage:** Store at +4°C

   **Batch Molecular Structure:**

   ![Structure Image]

2. **ANALYTICAL DATA**

   **Melting Point:** Between 164 - 166°C

   **HPLC:** Shows >99.6% purity

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

   **Mass Spectrum:** Consistent with structure

   **Microanalysis:**

<table>
<thead>
<tr>
<th></th>
<th>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theoretical</td>
<td>45.28</td>
<td>3.8</td>
<td>13.2</td>
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<tr>
<td>Found</td>
<td>45.09</td>
<td>3.72</td>
<td>13.06</td>
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</tbody>
</table>
Product Name: Zonisamide
Catalog No.: 2625
Batch No.: 1

CAS Number: 68291-97-4
IUPAC Name: 1,2-Benzisoxazole-3-methanesulfonamide

Description:
Antiepileptic that possesses a broad spectrum anticonvulsant and mechanistic profile. Blocks voltage-sensitive Na\(^+\) and T-type Ca\(^{2+}\) channels, stimulates BK\(_{Ca}\) channels, modulates GABA, glutamate and monoamine neurotransmission, inhibits lipid peroxidation and scavenges hydroxyl and nitric oxide free radicals. Displays neuroprotective and antiParkinsonian activity.

Physical and Chemical Properties:
Batch Molecular Formula: C\(_8\)H\(_8\)N\(_2\)O\(_3\)S
Batch Molecular Weight: 212.22
Physical Appearance: White crystalline solid

Minimum Purity: >99%

Storage: Store at +4°C

Solubility & Usage Info:
- water to 10 mM
- 1.1eq. NaOH to 100 mM
- DMSO to 100 mM
- ethanol to 25 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: