1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( C_{17}H_{13}N_5O_2\cdot H_2O \)
Batch Molecular Weight: 337.34
Physical Appearance: Off White solid
Solubility:
- DMSO to 100 mM with gentle warming
- Ethanol to 10 mM with gentle warming
Storage: Store at RT

2. ANALYTICAL DATA

HPLC: Shows 100% purity
\(^1\)H 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>60.53</td>
<td>60.45</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>4.48</td>
<td>4.49</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>20.76</td>
<td>20.82</td>
</tr>
</tbody>
</table>
**Product Name:** SB 334867  
**Catalog No.:** 1960

**CAS Number:** 792173-99-0  
**IUPAC Name:** \( N-(2\text{-Methyl-6-benzoxazolyl})-N'\text{-1,5-naphthyridin-4-yl urea} \)

**Description:**  
SB 334867 is a selective non-peptide orexin OX\(_1\) receptor antagonist. \( pK_b \) values are 7.2 and < 5 for inhibition of intracellular \( \text{Ca}^{2+} \) release in CHO cells expressing human OX\(_1\) and OX\(_2\) receptors respectively. Blocks orexin-A induced grooming and feeding following systemic administration in vivo.

**Physical and Chemical Properties:**  
- **Batch Molecular Formula:** \( \text{C}_{17}\text{H}_{13}\text{N}_5\text{O}_2\text{H}_2\text{O} \)  
- **Batch Molecular Weight:** 337.34  
- **Physical Appearance:** Off White solid  
- **Minimum Purity:** \( \geq 99\% \)

**Batch Molecular Structure:**

![Batch Molecular Structure](image)

**Storage:** Store at RT

**Solubility & Usage Info:**  
- **DMSO** to 100 mM with gentle warming  
- **Ethanol** to 10 mM with gentle warming  

When purchased as a 1mg unit, this product is supplied as a lyophilized solid and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

**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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:  
- **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.

**Licensing Information:**  
Sold for research purposes under agreement from GlaxoSmithKline

**References:**

**Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use**