1. PHYSICAL AND CHEMICAL PROPERTIES

   **Batch Molecular Formula:** \( \text{C}_{17}\text{H}_{13}\text{N}_{5}\text{O}_{2}\cdot\text{H}_{2}\text{O} \)

   **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:** Desiccate at RT

2. ANALYTICAL DATA

   **HPLC:** Shows 100% purity

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

   **Mass Spectrum:** Consistent with structure

   **Microanalysis:**

<table>
<thead>
<tr>
<th></th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>60.53</td>
<td>60.44</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>4.48</td>
<td>4.51</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>20.76</td>
<td>20.63</td>
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</tbody>
</table>
Product Name: SB 334867

CAS Number: 792173-99-0

IUPAC Name: N-(2-Methyl-6-benzoxazolyl)-N'-1,5-naphthyridin-4-yl urea

**Description:**
Selective non-peptide orexin OX₁ receptor antagonist. pKᵢ values are 7.2 and < 5 for inhibition of intracellular Ca²⁺ release in CHO cells expressing human OX₁ and OX₂ receptors respectively. Blocks orexin-A induced grooming and feeding following systemic administration in vivo.

**Physical and Chemical Properties:**
Batch Molecular Formula: C₁₇H₁₅N₃O₂·H₂O
Batch Molecular Weight: 337.34
Physical Appearance: Off-white solid
Minimum Purity: >99%

**Batch Molecular Structure:**

![Molecular Structure](image)

**Storage:** Desiccate at RT

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

**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:**


