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
\(^1\text{H} \text{NMR:} \) Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis: Carbon Hydrogen Nitrogen
Theoretical 60.53 4.48 20.76
Found 60.45 4.49 20.82

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
**Product Name:** SB 334867  
**Catalog No.:** 1960  
**Batch No.:** 14

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

**Description:**  
SB 334867 is a selective non-peptide orexin OX₁ receptor antagonist. \(pK_{i}\) values are 7.2 and < 5 for inhibition of intracellular \(Ca^{2+}\) 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: \(C_{22}H_{21}N_{5}O_{3}\)
Batch Molecular Weight: 337.34  
Physical Appearance: Off White solid

**Minimum Purity:** ≥99%

**Batch Molecular Structure:**

![Batch Molecular Structure](image)

**Storage:** Desiccate 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. 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.

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

**References:**  
