

**Product Name:** SB 334867

**Catalog No.:** 1960

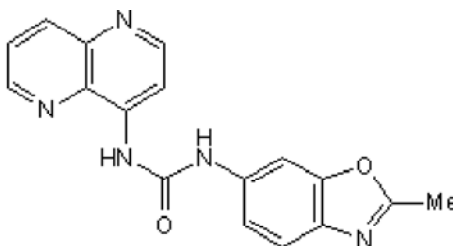
**Batch No.:** 12

CAS Number: 792173-99-0

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

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>17</sub>H<sub>13</sub>N<sub>5</sub>O<sub>2</sub>.H<sub>2</sub>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  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 100% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	60.53	4.48	20.76
Found	60.44	4.51	20.63

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

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**Description:**

Selective non-peptide orexin OX<sub>1</sub> receptor antagonist. pK<sub>b</sub> values are 7.2 and < 5 for inhibition of intracellular Ca<sup>2+</sup> release in CHO cells expressing human OX<sub>1</sub> and OX<sub>2</sub> receptors respectively. Blocks orexin-A induced grooming and feeding following systemic administration in vivo.

**Physical and Chemical Properties:**

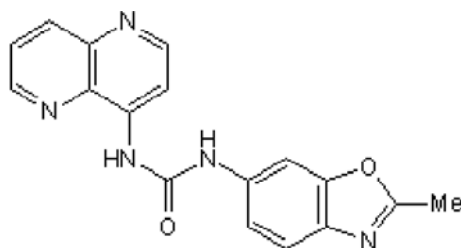
Batch Molecular Formula: C<sub>17</sub>H<sub>13</sub>N<sub>5</sub>O<sub>2</sub>.H<sub>2</sub>O

Batch Molecular Weight: 337.34

Physical Appearance: Off-white solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**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:**

**Duxon et al** (2001) Evidence that orexin-A-evoked grooming in the rat is mediated by orexin-1 (OX<sub>1</sub>) receptors, with downstream 5-HT<sub>2c</sub> receptor involvement. *Psychopharmacology* **153** 203. PMID: 11205420.

**Porter et al** (2001) 1,3-Biaryureas as selective non-peptide antagonists of the orexin-1 receptor. *Bioorg.Med.Chem.Lett.* **11** 1907. PMID: 11459658.

**Smart et al** (2001) SB-334867-A: the first selective orexin-1 receptor antagonist. *Br.J.Pharmacol.* **132** 1179. PMID: 11250867.

**Haynes et al** (2000) A selective orexin-1 receptor antagonist reduces food consumption in male and female rats. *Regul.Pept.* **96** 45. PMID: 11102651.

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**bio-techne.com**

info@bio-techne.com  
techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com  
Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**

www.tocris.com/distributors  
Tel:+1 612 379 2956