

Product Name: SB 334867

Catalog No.: 1960

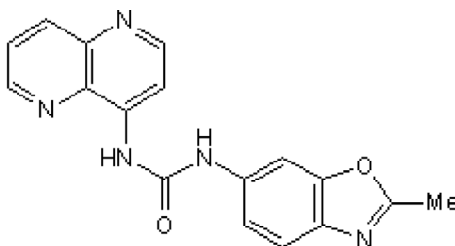
Batch No.: 14

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: C₁₇H₁₃N₅O₂.H₂O
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
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100% purity
¹H 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

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Description:

SB 334867 is a selective non-peptide orexin OX₁ receptor antagonist. pK_b 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:

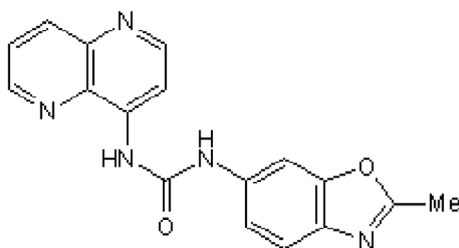
Batch Molecular Formula: C₁₇H₁₃N₅O₂.H₂O

Batch Molecular Weight: 337.34

Physical Appearance: Off White solid

Minimum Purity: ≥99%

Batch Molecular Structure:



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:

Duxon et al (2001) Evidence that orexin-A-evoked grooming in the rat is mediated by orexin-1 (OX₁) receptors, with downstream 5-HT_{2c} receptor involvement. *Psychopharmacology* **153** 203. PMID: 11205420.

Porter et al (2001) 1,3-Biarylureas 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.

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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