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DATASHEET

SB 334867

Product overview

 Name
 SB 334867

 Cat No
 HB2913

Alternative names SB-334867-A, SB334867A

Biological actionPurity
Antagonist >98%

Description Selective non-peptide orexin OX1 receptor antagonist

Images



Biological Data

Biological description

Overview

First non-peptide selective orexin-1 (OX₁) receptor antagonist which shows ~50-fold selectivity for OX₁ over OX₂ (pK_b values are 7.2 and < 5 for inhibition of intracellular Ca²⁺ release in CHO cells expressing hOX_1R and OX_2R respectively).

Uses and applications

SB-334867 shows a variety of biological effects and has been used to investigate the role of OX_1R in stress, obestiiy, drug addiction and relapse. It has been shown to reduce food intake and most active behaviours (eating, grooming, sniffing, locomotion and rearing), while increasing resting.

Solubility & Handling

Solubility overview

Soluble in DMSO (100 mM), and in ethanol (10 mM with gentle warming). Do not add acid to any formulatin to aid solubilisation as this may cause the compound to undergo hydrolysis.

Storage instructions Storage of solutions

Room temperature (desiccate)

Prepare and use solutions on the same day if possible. Store solutions at -20°C for up to one month if storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.

Shipping Conditions Important

Stable for ambient temperature shipping. Follow storage instructions on receipt.

This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

Chemical Data

Chemical name N-(2-Methyl-6-benzoxazolyl)-N'-1,5-naphthyridin-4-yl urea

Molecular Weight 319.32

Chemical structure

SMILES CC1=NC2=C(O1)C=C(C=C2)NC(=O)NC3=C4C(=NC=C3)C=CC=N4

Source Synthetic

InChl=1S/C17H13N5O2/c1-10-20-12-5-4-11(9-15(12)24-10)21-17(23)22-14-6-8-18-13-3-2-7-19-16(

13)14/h2-9H,1H3,(H2,18,21,22,23)

InChiKey AKMNUCBQGHFICM-UHFFFAOYSA-N

MDL number MFCD06411602 Appearance White solid

References

SB-334867-A: the first selective orexin-1 receptor antagonist.

Smart et al (2001) Br J Pharmacol. 132(6) **PubMedID** 11250867

SB-334867, a selective orexin-1 receptor antagonist, enhances behavioural satiety and blocks the hyperphagic effect of orexin-A in rats.

Rodgers et al (2001) Eur J Neurosci. 13(7) **PubMedID**11298806

SB-334867 (an Orexin-1 Receptor Antagonist) Effects on Morphine-Induced Sensitization in Mice-a View on Receptor Mechanisms.

Lupina et al (2018) Mol Neurobiol 55(11) **PubMedID**29557083