

Product Name: SB-334867 hydrochloride Revision Date: 01/10/2021

Product Data Sheet

SB-334867 hydrochloride

OX Receptor

Cat. No.: B1281

CAS No.: 249889-64-3

Formula: C17H14CIN5O2 **M.Wt:** 355.78

Synonyms:

Pathway:

In Vitro

Target: GPCR/G protein

Storage: Store at -20°C

HCI HN N

Solvent & Solubility

insoluble in H2O; ≥2.72 mg/mL in EtOH with ultrasonic; ≥5.2 mg/mL in DMSO with gentle warming

Mass Solvent 1mg 5mg 10mg Preparing Concentration Stock Solutions 1 mM 2.8107 mL 14.0536 mL 28.1073 mL 2.8107 mL 5 mM 0.5621 mL 5.6215 mL 1.4054 mL 2.8107 mL 10 mM 0.2811 mL1

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

Shortsummary Orexin-1 receptor antagonis
--

IC₅₀ & Target

	Cell Viability Assay	
	Cell Line:	CHO-OX1 and CHO-OX2 cells
	Preparation method:	The solubility of this compound in DMSO is >5.2mg/mL. General tips for
In Vitro		obtaining a higher concentration: Please warm the tube at 37°C for 10 minutes
		and/or shake it in the ultrasonic bath for a while. Stock solution can be stored
		below -20°C for several months.
	Reacting conditions:	100 pM-10 μM

	Applications:	In CHO-OX1 cells, SB-334867-A (100 pM-10 µM) inhibited the orexin-A (10
		nM) and orexin-B (100 nM)-induced calcium responses in a
		concentration-dependent way, with apparent pKB values of 7.27±0.04 and
		7.23±0.03, respectively. In CHO-OX2 cells, SB-334867-A also inhibited the
		orexin-A (10 nM) and orexin-B (10 nM)-induced calcium responses by 32.7±1.9
	210	and 22.0±4.0%, respectively.
	Animal experiment	
	Animal models:	adult male Lister hooded rats
	Dosage form:	3.0, 10.0 and 30.0 mg/kg, i.p.
	Applications:	In adult male Lister hooded rats, SB-334867 significantly reduced food intake
		and most active behaviours (eating, grooming, sniffing, locomotion and
In Vivo		rearing), while increasing resting. SB-334867 dose-dependently blocked the
		effects of orexin-A, such as stimulation of food intake, increasing grooming and
		delaying the onset of behavioural satiety.
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may
	PE	slightly differ with the theoretical value. This is caused by an experimental
	and the state of t	system error and it is normal.

Product Citations

See more customer validations on www.apexbt.com.

References

[1] Smart D, Sabido-David C, Brough S J, et al. SB-334867-A: the first selective orexin-1 receptor antagonist. British journal of pharmacology, 2001, 132(6): 1179-1182.

APE BIO

[2] Rodgers R J, Halford J C G, Nunes de Souza R L, et al. SB-334867, a selective orexin-1 receptor antagonist, enhances behavioural satiety and blocks the hyperphagic effect of orexin-A in rats. European Journal of Neuroscience, 2001, 13(7): 1444-1452.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

APExBIO Technology

www.apexbt.com

7505 Fannin street, Suite 410, Houston, TX 77054.

Tel: +1-832-696-8203 | Fax: +1-832-641-3177 | Email: info@apexbt.com



APE BIO

APE BIO

APE BIO

APE BIO

APE BIO

APEVEIO.