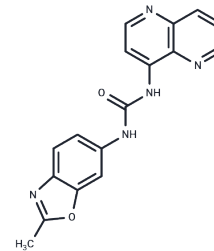


SB-334867 free base

Chemical Properties

CAS No. : 792173-99-0
 Formula: C₁₇H₁₃N₅O₂
 Molecular Weight: 319.32
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
 Actual storage temperature shall be subject to the COA.



Biological Description

Description	SB-334867 free base (SB334867A free base) is a selective orexin-1 (OX1) receptor antagonist. In CHO-OX1 cells, SB-334867 inhibits calcium responses mediated by the human OX1 receptor in a concentration-dependent manner, with a binding pKi value of 7.17 for the human OX1 receptor.
Targets(IC50)	OX Receptor
In vitro	In CHO-OX1 cells, SB-334867 inhibits the orexin-A (10 nM) and orexin-B (100 nM)-induced calcium responses with pKB of 7.27 and 7.23 respectively, without effect on the UTP (3 microM)-induced calcium response. [1]
In vivo	In both male and female rats, SB-334867 (30 mg/kg, i.p.) significantly reduces natural and orexin-A-induced food intake. [2] SB-334867 (2 mg/kg, i.v.) blocks the effects of antipsychotic drugs on dopamine neuronal activity in rats. [3]

Solubility Information

Solubility	Ethanol: 3.2 mg/mL (10.02 mM), Heating is recommended. DMSO: 31.9 mg/mL (99.9 mM), Heating is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (6.26 mM), Sonication is recommended. Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1317 mL	15.6583 mL	31.3165 mL
5 mM	0.6263 mL	3.1317 mL	6.2633 mL
10 mM	0.3132 mL	1.5658 mL	3.1317 mL
50 mM	0.0626 mL	0.3132 mL	0.6263 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

- Smart D, et al. Br J Pharmacol. 2001, 132(6), 1179-1182.
- Haynes AC, et al. Regul Pept. 2000, 96(1-2), 45-51.
- Rasmussen K, et al. Neuropsychopharmacology. 2007, 32(4), 786-792.
- Ranjbar-Slamloo Y, et al. Peptides. 2012, 35(1), 56-59.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481