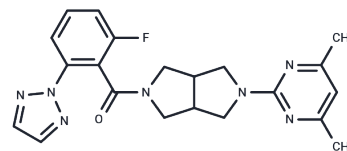


Seltorexant

Chemical Properties

CAS No. :	1293281-49-8
Formula:	C ₂₁ H ₂₂ FN ₇ O
Molecular Weight:	407.44
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Seltorexant (JNJ-42847922) crosses the blood-brain barrier and quickly occupies OX2R binding sites in the rat brain. Seltorexant is a high-affinity and selective orexin-2 receptor antagonist (pKi: 8.0 and 8.1 for human and rat OX2R).
Targets(IC50)	OX Receptor
In vivo	Seltorexant (3-30 mg/kg; p.o.) dose-dependently causes and prolongs sleep in male Sprague-Dawley rats. The sleep-promoting effects of Seltorexant (30 mg/kg; p.o.; per day for 7 days) are maintained upon 7-day repeated dosing in rats [1].

Solubility Information

Solubility	DMSO: 250 mg/mL (613.59 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4543 mL	12.2717 mL	24.5435 mL
5 mM	0.4909 mL	2.4543 mL	4.9087 mL
10 mM	0.2454 mL	1.2272 mL	2.4543 mL
50 mM	0.0491 mL	0.2454 mL	0.4909 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.

Reference

Bonaventure P, et al. Characterization of JNJ-42847922, a Selective Orexin-2 Receptor Antagonist, as a Clinical Candidate for the Treatment of Insomnia. J Pharmacol Exp Ther. 2015 Sep;354(3):471-82.

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:36 Washington Street,Wellesley Hills,MA 02481