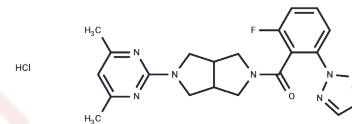


Seltorexant hydrochloride

Chemical Properties

CAS No. : 1293284-49-7
 Formula: C₂₁H₂₃ClFN₇O
 Molecular Weight: 443.91
 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	Seltorexant hydrochloride is a selective, orally active and high-affinity antagonist of OX2R with pKi values of 8.0 and 8.1 for human and rat OX2R.
Targets(IC50)	Others,OX Receptor
In vivo	Seltorexant hydrochloride (JNJ-42847922 hydrochloride) (3-30 mg/kg; p.o.) dose-dependently induces and prolongs sleep in male Sprague-Dawley rats. The sleep-promoting effects of Seltorexant hydrochloride (30 mg/kg; p.o.; per day for 7 days) are maintained upon 7-day repeated dosing in rats.

Solubility Information

Solubility	DMSO: 83.33 mg/mL (187.72 mM),Sonication 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: 3.3 mg/mL (7.43 mM),Sonication is recommended. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2527 mL	11.2635 mL	22.5271 mL
5 mM	0.4505 mL	2.2527 mL	4.5054 mL
10 mM	0.2253 mL	1.1264 mL	2.2527 mL
50 mM	0.0451 mL	0.2253 mL	0.4505 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

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.

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