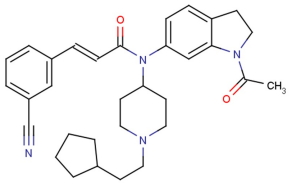
Data Sheet (Cat.No.T15620)

TargetMol
A DRUG SCREENING EXPERT

JNJ-5207787

Chemical Properties



CAS No.:	683746-68-1
Formula:	C32H38N4O2
Molecular Weight:	510.67
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	JNJ-5207787 is a penetrates the blood-brain barrier neuropeptide Y Y2 receptor (Y2) antagonist. It is >100-fold selective versus human Y1, Y4, and Y5 receptors. JNJ-5207787 suppresses the binding of peptide YY with pIC50s of 7.0 and 7.1 for the human Y2 receptor and rat Y2 receptor, respectively.
Targets(IC_{50})	human Y2 receptor: 7.0 (pic50) rat Y2 receptor: 7.1 (pic50)
In vitro	JNJ-5207787 (10 μM; 15 min) suppresses [125I]PYY labeling in the lateral septum, cerebellum, ventral tegmental area, substantia nigra, hippocampus, septum, amygdala, and hypothalamus. JNJ-5207787 (0.01, 0.1, 1, 10 μM) has antagonistic properties and suppresses the PYY-stimulated [35S]GTPγS binding to basal level with a pIC50 corr of 7.20.
In vivo	JNJ-5207787 (i.p.; 30 mg/kg) penetrates into the brain (Cmax=1351 ng/ml at 30 min). It also occupies Y2 receptor binding sites.

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.958 mL	9.791 mL	19.582 mL
5 mM	0.392 mL	1.958 mL	3.916 mL
10 mM	0.196 mL	0.979 mL	1.958 mL
50 mM	0.039 mL	0.196 mL	0.392 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Bonaventure P, et al. Characterization of N-(1-Acetyl-2,3-dihydro-1H-indol-6-yl)-3-(3-cyano-phenyl)-N-[1-(2-cyclopentyl-ethyl)-piperidin-4yl]acrylamide (JNJ-5207787), a small molecule antagonist of the neuropeptide YY2 receptor. J Pharmacol Exp Ther. 2004 Mar;308(3):1130-7.

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