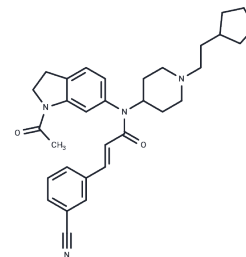


JNJ-5207787

## Chemical Properties

CAS No. : 683746-68-1  
Formula: C<sub>32</sub>H<sub>38</sub>N<sub>4</sub>O<sub>2</sub>  
Molecular Weight: 510.67  
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	JNJ-5207787 is a blood-brain barrier penetrant neuropeptide Y Y2 receptor antagonist that demonstrates greater than 100-fold selectivity over Y1, Y4, and Y5 receptor subtypes, JNJ-5207787 potently suppresses peptide YY binding at both human and rat Y2 receptors, supporting the use of JNJ-5207787 in central nervous system research focused on neuropeptide signaling.
Targets(IC50)	Others
In vitro	JNJ-5207787 inhibits PYY-stimulated [35S]GTPγS binding, returning it to basal levels with a corrected pIC <sub>50</sub> of 7.20 (evaluated at 0.01-10 μM) [1].
In vivo	In Sprague-Dawley rats, JNJ-5207787 demonstrates blood-brain barrier (BBB) permeability. Following intraperitoneal (i.p.) administration at a dose of 30 mg/kg, the compound reaches a maximum brain concentration (C <sub>max</sub> ) of 1351 ng/mL within 30 minutes. In vivo occupancy experiments confirm that systemically administered JNJ-5207787 occupies central Y2 receptor binding sites [1].

## Solubility Information

Solubility	DMSO: 4 mg/mL (7.83 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	1.9582 mL	9.7911 mL	19.5821 mL
5 mM	0.3916 mL	1.9582 mL	3.9164 mL
10 mM	0.1958 mL	0.9791 mL	1.9582 mL
50 mM	0.0392 mL	0.1958 mL	0.3916 mL

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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 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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