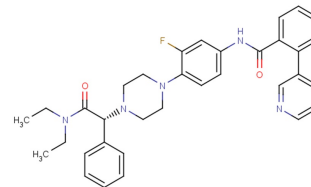


(R)-JNJ-31020028

Chemical Properties

CAS No.:	1094873-17-2
Formula:	C34H36FN5O2
Molecular Weight:	565.68
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

**Biological Description**

Description	(R)-JNJ-31020028 is a high affinity, selective brain penetrant antagonist of neuropeptide Y Y2 receptor (pIC ₅₀ values of 8.07, 8.22 and 8.21 for human, rat, and mouse Y2 receptor, respectively).
Targets(IC ₅₀)	human Y2 receptor: 8.07(pIC ₅₀) rat Y2 receptor: 8.22(pIC ₅₀) mouse Y2 receptor: 8.21(pIC ₅₀)
In vivo	Chronic icv administration of (R)-JNJ-31020028 at 5.6 µg/day using osmotic Alzet pump resulted in a significant decreases number of grooming events[1]. (R)-JNJ-31020028 treatment shows the C _{max} , T _{max} , AUC _{inf} , V _d , and t _{1/2} were 4.35 µM, 0.5 hours, 7.91 h µM and 0.83 hours, respectively. (R)-JNJ-31020028 has antidepressant like effects in the olfactory bulbectomized rat (OBX) model. [1].

Solubility Information

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

	1mg	5mg	10mg
1 mM	1.768 mL	8.839 mL	17.678 mL
5 mM	0.354 mL	1.768 mL	3.536 mL
10 mM	0.177 mL	0.884 mL	1.768 mL
50 mM	0.035 mL	0.177 mL	0.354 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 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

- Shoblock JR, et al. In vitro and in vivo characterization of JNJ-31020028 (N-(4-(4-[2-(diethylamino)-2-oxo-1-phenylethyl]piperazin-1-yl)-3-fluorophenyl)-2-pyridin-3-ylbenzamide), a selective brain penetrant small molecule antagonist of the neuropeptide Y Y(2) receptor. *Psychopharmacology (Berl)*. 2010 Feb;208(2):265-77.
- Morales-Medina JC, et al. Chronic administration of the Y2 receptor antagonist, JNJ-31020028, induced anti-depressant like-behaviors in olfactory bulbectomized rat. *Neuropeptides*. 2012 Dec;46(6):329-34.

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