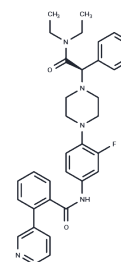


(R)-JNJ-31020028

## Chemical Properties

CAS No. : 1094873-17-2  
 Formula: C<sub>34</sub>H<sub>36</sub>N<sub>5</sub>O<sub>2</sub>  
 Molecular Weight: 565.68  
 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                | (R)-JNJ-31020028 is a high-affinity, selective brain-penetrant antagonist of the neuropeptide Y Y <sub>2</sub> receptor, with pIC <sub>50</sub> values of 8.07, 8.22, and 8.21 for human, rat, and mouse Y <sub>2</sub> receptors, respectively.   |
| Targets(IC <sub>50</sub> ) | Others, Neuropeptide Y Receptor  |
| 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 <sub>max</sub> , T <sub>max</sub> , AUC <sub>inf</sub> , V <sub>d</sub> , and t <sub>1/2</sub> 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]. |

## Preparing Stock Solutions

|       | 1mg       | 5mg       | 10mg       |
|-------|-----------|-----------|------------|
| 1 mM  | 1.7678 mL | 8.8389 mL | 17.6778 mL |
| 5 mM  | 0.3536 mL | 1.7678 mL | 3.5356 mL  |
| 10 mM | 0.1768 mL | 0.8839 mL | 1.7678 mL  |
| 50 mM | 0.0354 mL | 0.1768 mL | 0.3536 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

- 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<sub>2</sub> receptor. *Psychopharmacology (Berl)*. 2010 Feb;208(2):265-77.
- Morales-Medina JC, et al. Chronic administration of the Y<sub>2</sub> receptor antagonist, JNJ-31020028, induced antidepressant like-behaviors in olfactory bulbectomized rat. *Neuropeptides*. 2012 Dec;46(6):329-34.

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