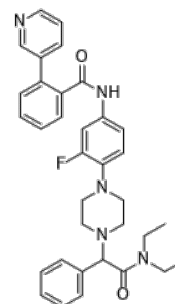


Product Name : JNJ-31020028
Cat. No. : PC-28418
CAS No. : 1094873-14-9
Molecular Formula : C₃₄H₃₆FN₅O₂
Molecular Weight : 565.69
Target : Neuropeptide Y Receptor
Solubility : 10 mM in DMSO



Biological Activity

JNJ-31020028 is a potent, selective, brain penetrant antagonist of neuropeptide Y Y2 receptor (Y2R) with binding pIC₅₀ of 8.07 and 8.22 for human and rat Y(2) receptors, >100-fold selective versus human Y(1), Y(4), and Y(5) receptors.

JNJ-31020028 is an antagonist (pK(B) = 8.04 +/- 0.13) in functional assays.

JNJ-31020028 occupies Y(2) receptor binding sites (approximately 90% at 10 mg/kg) after subcutaneous administration in rats.

JNJ-31020028 increases norepinephrine release in the hypothalamus, consistent with the colocalization of norepinephrine and neuropeptide Y.

JNJ-31020028 reverses nicotine-induced social anxiety-like behavior.

References

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Swanson DM, et al. Bioorg Med Chem Lett. 2011 Sep 15;21(18):5552-6.

Cippitelli A, et al. Alcohol. 2011 Sep;45(6):567-76.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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