

Product Data Sheet

Product Name: JNJ-54175446

Cat. No.: GC31098

Chemical Properties

Cas. No. 1627902-21-9

SMILES C1C=C(C=CC=C1C(N2CCC3=C(N=NN3C4=NC=C(F)C=N4)[C@H]2C)=O)C(F)(F)F

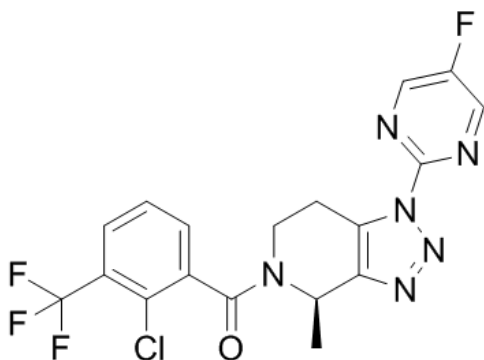
Formula $C_{18}H_{13}ClF_4N_6O$ M.Wt 440.78

Solubility DMSO: 62.5 mg/mL (141.79 mM) Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

JNJ-54175446 is a potent and selective brain penetrant P2X₇ receptor antagonist, with pIC₅₀s of 8.46 and 8.81 for hP2X₇ receptor and rP2X₇ receptor, respectively.

JNJ-54175446 (Compound 14) is a potent and selective brain penetrant P2X₇ antagonist, with pIC₅₀s of 8.46 and 8.81 for hP2X₇ and rP2X₇, respectively. JNJ-54175446 shows less potent activity against mouse, dog and Macaque P2X₇ (pIC₅₀, 7.8, 7.9 and 8.1, respectively)[1].

Caution: Product has not been fully validated for medical applications. For research use only.

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JNJ-54175446 shows dose-dependent occupancy with the ED₅₀ of 0.46 mg/kg, corresponding to plasma EC₅₀ of 105 ng/mL[1].

[1]. Letavic MA, et al. 4-Methyl-6,7-dihydro-4H-triazolo[4,5-c]pyridine-Based P2X₇ Receptor Antagonists: Optimization of Pharmacokinetic Properties Leading to the Identification of a Clinical Candidate. Send to

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