

Product Data Sheet

Product Name: JNJ-41443532

Cat. No.: GC70720

Chemical Properties

Cas. No. 1228650-83-6

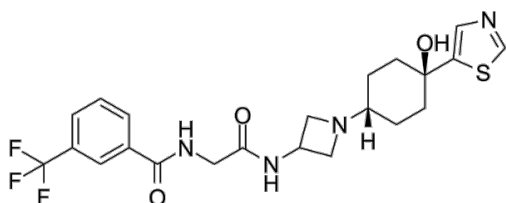
Formula $C_{22}H_{25}F_3N_4O_3S$ M.Wt 482.52

Solubility DMSO : 100 mg/mL (207.25 mM); Storage -20°C
Need ultrasonic; Hygroscopic DMSO has a significant impact on the solubility of product, please use newly opened DMSO)

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-41443532 (CCR2 antagonist 5) is a selective, orally active hCCR2 inhibitor with good binding affinity (IC₅₀=37 nM) and potent functional antagonism (chemotaxis IC₅₀=30 nM). JNJ-41443532 displays a K_i of 9.6 μM for mCCR2 binding. JNJ-41443532 can be used in the research of inflammatory disease.

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

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JNJ-41443532 (compound 8d) dose-dependently inhibits the influx of leukocytes, monocytes/macrophages and T-lymphocytes into the peritoneal cavity with an ED₅₀ of 3 mg/kg p.o.

bid in a thioglycollate-induced peritonitis (TG) model^[1].

JNJ-41443532 has good CV safety profile. It does not induce dose-dependent or notable effects on most cardiohemodynamic, functional respiratory and electrophysiological parameters up to 10 mg/kg (i.v.) with plasma level at 70 µM in an anesthetized dog^[1].

JNJ-41443532 has amendable oral bioavailability in dogs and primates. Pharmacokinetic parameters (p.o.)^[1]:

Species	Dose(mg/kg)	C _{max} (ng/mL)	AUC _{last} (h*ng/mL)	Oral bioavailability(%)
dogs	6.7	1617	5887	70.2
non-human primates	7.2	740	3061	25.4
mice	10	74	204	19
rats	10	100	416	15.3

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