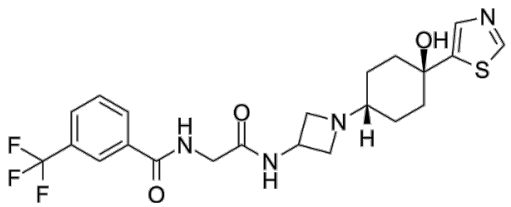
Product Data Sheet

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; Need ultrasonic; Hygroscopic DMSO has a significant impact on the solubility of product, please use newly opened DMSO)	Storage	-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-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 Ki 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 ED_{50} 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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