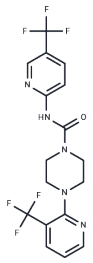
Data Sheet (Cat.No.T7526)

TargetMol

JNJ-17203212

Chemical Properties



CAS No. : 821768-06-3

Formula: C17H15F6N5O

Molecular Weight: 419.32

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	JNJ-17203212 is a potent and selective antagonist of TRPV1 (human TRPV1 and rat TRPV1, IC50 of 65 nM and 102 nM).
Targets(IC50)	TRP/TRPV Channel
In vivo	TRPV1 antagonist, JNJ-17203212, reduces sensitivity to luminal distension in both an acute, noninflammatory and a chronic, post-inflammatory rodent model of colonic hypersensitivity.??TRPV1 is involved in the pathogenesis of visceral hypersensitivity and that JNJ-17203212 may be a potential therapeutic agent for functional bowel disorders characterized by abdominal hypersensitivity, such as irritable bowel syndrome[1].
Animal Research	Colonic sensitivity was assessed via quantification of VMR to CRD in rats following a single, oral administration of JNJ-17203212 (3, 10 or 30 mg/kg) or vehicle[1].

Solubility Information

Solubility	DMSO: 100 mg/mL (238.48 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (9.54 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3848 mL	11.9241 mL	23.8481 mL
5 mM	0.477 mL	2.3848 mL	4.7696 mL
10 mM	0.2385 mL	1.1924 mL	2.3848 mL
50 mM	0.0477 mL	0.2385 mL	0.477 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

Wiskur B J , Tyler K , Campbelldittmeyer K , et al. A novel TRPV1 receptor antagonist JNJ-17203212 attenuates colonic hypersensitivity in rats.[J]. Methods & Findings in Experimental & Clinical Pharmacology, 2010, 32(8):557-64.

Kelly S , Chapman R J , Woodhams S , et al. Increased function of pronociceptive TRPV1 at the level of the joint in a rat model of osteoarthritis pain[J]. Annals of the Rheumatic Diseases, 2015, 74(1):252-259.