



上海源叶生物科技有限公司
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产品名称: **INCB8761(PF-4136309)**
产品别名: **PF-4136309**

生物活性:				
Description	PF-4136309 is a potent, selective, and orally bioavailable CCR2 antagonist, with IC ₅₀ s of 5.2 nM, 17 nM and 13 nM for human, mouse and rat CCR2.			
IC ₅₀ & Target	Human CCR2	Mouse CCR2	Rat CCR2	
	5.2 nM (IC ₅₀)	13 nM (IC ₅₀)	17 nM (IC ₅₀)	
In Vitro	PF-4136309 is potent in human chemotaxis activity (IC ₅₀ =3.9 nM) and in the whole blood assay (IC ₅₀ =19 nM), with IC ₅₀ of 16 and 2.8 nM in mouse and rat chemotaxis assays. PF-4136309 is potent in inhibiting CCR2 mediated signaling events such as intracellular calcium mobilization and ERK (extracellular signal-regulated kinase) phosphorylation with IC ₅₀ values of 3.3 and 0.5 nM, respectively. In hERG patch clamp assay, PF-4136309 inhibits hERG potassium current with an IC ₅₀ of 20 μM. PF-4136309 is not a cytochrome P450 (CYP) inhibitor, with IC ₅₀ values of >30 μM against five major CYP isozymes CYP1A2, CYP2C9, CYP2C19, CYP2D6, and CYP3A4. Moreover, PF-4136309 is not a CYP inducer at concentrations up to 30 μM ^[1] .			
In Vivo	PF-4136309 (2 mg/kg) exhibits a moderate half-life in both species after iv administration (2.5 and 2.4 h). When administered orally, PF-4136309 (10 mg/kg) is absorbed rapidly, with peak concentration time (T _{max}) at 1.2 h for rats and 0.25 h for dogs. A similar half-life is observed in both species between iv dosing and po dosing. PF-4136309 is well absorbed, with an oral bioavailability of 78% in both species ^[1] .			
Solvent&Solubility	In Vitro: DMSO : ≥ 34 mg/mL (59.80 mM) * "≥" means soluble, but saturation unknown.			
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg
		1 mM	1.7587 mL	8.7937 mL
		5 mM	0.3517 mL	1.7587 mL
		10 mM	0.1759 mL	0.8794 mL
	*请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液。一旦配成溶液, 请分装保存, 避免反复冻融造成的产品失效。 储备液的保存方式和期限: -80°C, 6 months; -20°C, 1 month。-80°C 储存时, 请在 6 个月内使用, -20°C 储存时, 请在 1 个月内使用。 In Vivo: 请根据您的实验动物和给药方式选择适当的溶解方案。以下溶解方案都请先按照 In Vitro 方式配制澄清的储备液, 再依次添加助溶剂: ——为保证实验结果的可靠性, 澄清的储备液可以根据储存条件, 适当保存; 体内实验的工作液, 建议您现用现配, 当天使用; 以下溶剂前显示的百分比是指该溶剂在您配制终溶液中的体积占比; 如在配制过程中出现沉淀、析出现象, 可以通过加热和/或超声的方式助溶 1.请依序添加每种溶剂: 10% DMSO→40% PEG300 →5% Tween-80 → 45% saline Solubility: ≥ 2.08 mg/mL (3.66 mM); Clear solution 此方案可获得 ≥ 2.08 mg/mL (3.66 mM, 饱和度未知) 的澄清溶液。			



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	<p>以 1 mL 工作液为例, 取 100 μL 20.8 mg/mL 的澄清 DMSO 储备液加到 400 μL PEG300 中, 混合均匀向上述体系中加入 50 μL Tween-80, 混合均匀; 然后继续加入 450 μL 生理盐水定容至 1 mL。</p> <p>2. 请依序添加每种溶剂: 10% DMSO \rightarrow 90% corn oil</p> <p>Solubility: \geq 2.08 mg/mL (3.66 mM); Clear solution</p> <p>此方案可获得 \geq 2.08 mg/mL (3.66 mM, 饱和度未知) 的澄清溶液, 此方案不适用于实验周期在半个月以上的实验。</p> <p>以 1 mL 工作液为例, 取 100 μL 20.8 mg/mL 的澄清 DMSO 储备液加到 900 μL 玉米油中, 混合均匀。</p>
References	<p>[1]. Xue CB, et al. Discovery of INCB8761/PF-4136309, a Potent, Selective, and Orally Bioavailable CCR2 Antagonist. ACS Med. Chem. Lett., 2011, 2 (12), pp 913-918.</p>