



上海源叶生物科技有限公司
Shanghai yuanye Bio-Technology Co., Ltd
电话: 021-61312973 传真: 021-55068248
网址: www.shyuanye.com
邮箱: shyysw@sina.com

产品名称: **MK-0773**
产品别名: **PF-05314882**

生物活性:					
Description	MK-0773 is a selective androgen receptor modulators (SARMs) that binds to AR with an IC50 of 6.6 nM.				
IC₅₀ & Target	IC50: 6.6 nM (AR)				
In Vitro	The IC50 of MK-0773 binding to AR is increased 3.5-fold in the presence of 25% rat serum and 13-fold in the presence of 25% human serum, indicating that it binds to serum proteins. The affinity of MK-0773 for AR across species is evaluated using COS cells transfected with AR, and IC50 values are very similar in four species (rat, 0.50 nM; dog, 0.55 nM; rhesus, 0.45 nM; human, 0.65 nM)[1].				
In Vivo	MK-0773 (6 and 80 mg/kg, s.c.) produces exposure-related stimulatory effects on cortical BFR and LBM in the OVX rat model. MK-0773 (5, 15, and 80 mg/kg, s.c.) increases seminal vesicle weights, and has reduced effects on the prostate. The partial agonism and tissue selectivity of MK-0773 does not translate into differential effects on lipid metabolism in OVX rats[1].				
Solvent&Solubility	In Vitro: DMSO : 33.33 mg/mL (69.50 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg
		Concentration			
		1 mM	2.0851 mL	10.4256 mL	20.8511 mL
		5 mM	0.4170 mL	2.0851 mL	4.1702 mL
		10 mM	0.2085 mL	1.0426 mL	2.0851 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℃, 6 months; -20℃, 1 month。 -80℃ 储存时, 请在 6 个月内使用, -20℃ 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: ≥ 2.5 mg/mL (5.21 mM); Clear solution 此方案可获得 ≥ 2.5 mg/mL (5.21 mM, 饱和度未知) 的澄清溶液。 以 1 mL 工作液为例, 取 100 μL 25.0 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。 2.请依序添加每种溶剂: 10% DMSO→ 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (5.21 mM); Clear solution 此方案可获得 ≥ 2.5 mg/mL (5.21 mM, 饱和度未知) 的澄清溶液。 以 1 mL 工作液为例, 取 100 μL 25.0 mg/mL 的澄清 DMSO 储备液加到 900 μL 20% 的 SBE-β-CD 生理				



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	<p>盐水水溶液中，混合均匀。</p> <p>3.请依序添加每种溶剂： 10% DMSO →90% corn oil</p> <p>Solubility: ≥ 2.5 mg/mL (5.21 mM); Clear solution</p> <p>此方案可获得 ≥ 2.5 mg/mL (5.21 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 25.0 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]. Schmidt A, et al. Discovery of the selective androgen receptor modulator MK-0773 using a rational development strategy based on differential transcriptional requirements for androgenic anabolism versus reproductive physiology. J Biol Chem. 2010 May 28;285</p>
实验参考：	
Animal Administration	<p>Rats: Prostate and seminal vesicles are studied in 3-4-month-old 250-300-g rats after orchidectomy (ORX). Nine days after surgery, animals are injected (subcutaneously) daily with test compounds for 17 days, and the weight of the seminal vesicles (SVs) is compared with ORX rats treated with vehicle or DHT as a positive control. [1]</p>
References	<p>[1]. Schmidt A, et al. Discovery of the selective androgen receptor modulator MK-0773 using a rational development strategy based on differential transcriptional requirements for androgenic anabolism versus reproductive physiology. J Biol Chem. 2010 May 28;285</p>

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