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产品名称: **ELN-441958**
产品别名: **ELN-441958**

生物活性:					
Description	ELN-441958 is a potent, neutral antagonist of B1 receptor, inhibits the binding of the B1 agonist ligand [3H]DAKD to IMR-90 cells with Ki of 0.26 nM. ELN-441958 is highly selective for B1 over B2 receptors, and >500/ 2000-fold selective for the B1 over μ/δ-opioid receptor. IC50 value: 0.26 nM (Ki) Target: B1 Receptor in vitro: ELN-441958 is a novel small molecule bradykinin B1 receptor antagonist, based on the inhibition of agonist-induced increases in intracellular calcium in native and recombinant cells. ELN-441958 does not inhibit the activation of the human bradykinin B2 receptor at concentrations up to 10 μM, showing that it is highly selective for B1 over B2 receptors. ELN-441958 also displays good selectivity for B1 over other receptors examined in a broad screening panel. It is >500-fold and >2000-fold selective for the B1 receptor over the human μ- and δ-opioid receptor, the most potent off-target activity identified. In IMR-90 cells expressing the native human B1 receptor, ELN-441958 produced a concentration-dependent antagonism of the DAKD-induced calcium mobilization with a KB of 0.12 nM. [1] in vivo: ELN-441958 is essentially completely absorbed and produces high plasma levels after oral administration in rhesus monkeys.ELN-441958 has a moderate clearance and volume of distribution in both species following i.v. administration, consistent with the high metabolic stability in rat, rhesus, and human microsomes. ELN-441958 has high oral exposure and moderate plasma half-lives in rats and rhesus monkeys. The oral availability of ELN441958 in rats was 57%. ELN-441958 dose-dependently reduced carrageenan-induced thermal hyperalgesia in a rhesus monkey tail-withdrawal model, with an ED50 3 mg/kg s.c. [1]				
	In Vitro: DMSO : 100 mg/mL (199.59 mM; Need ultrasonic)				
Preparing Stock Solutions	<div>Solvent Concentration</div> <div>Mass</div>	1 mg	5 mg	10 mg	
	1 mM	1.9959 mL	9.9796 mL	19.9593 mL	
	5 mM	0.3992 mL	1.9959 mL	3.9919 mL	
	10 mM	0.1996 mL	0.9980 mL	1.9959 mL	
Solvent&Solubility	*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 (4.99 mM); Clear solution					
此方案可获得 ≥ 2.5 mg/mL (4.99 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 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。</p> <p>2. 请依序添加每种溶剂: 10% DMSO \rightarrow 90% (20% SBE-β-CD in saline)</p> <p>Solubility: \geq 2.5 mg/mL (4.99 mM); Clear solution</p> <p>此方案可获得 \geq 2.5 mg/mL (4.99 mM, 饱和度未知) 的澄清溶液。</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 20% 的 SBE-β-CD 生理盐水水溶液中, 混合均匀。</p> <p>3. 请依序添加每种溶剂: 10% DMSO \rightarrow 90% corn oil</p> <p>Solubility: \geq 2.5 mg/mL (4.99 mM); Clear solution</p> <p>此方案可获得 \geq 2.5 mg/mL (4.99 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]. Hawkinson JE, et al. Pharmacological, pharmacokinetic, and primate analgesic efficacy profile of the novel bradykinin B1 Receptor antagonist ELN441958. J Pharmacol Exp Ther. 2007 Aug; 322(2):619-630.</p>

源叶生物