



上海源叶生物科技有限公司
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产品名称: **Maropitant**
产品别名: 马罗皮坦

生物活性:					
Description	Maropitant is a neurokinin (NK1) receptor antagonist. IC50 value: Target: NK1 receptor Maropitant is the first NK1 receptor antagonist developed to treat and prevent emesis in dogs. Treatment with 1 mg/kg Maropitant citrate, significantly reduced the size of ulcerative dermatitis (UD) lesions in mice. Intravenous Maropitant decreased ($p < 0.05$) MAC by 16% ($1.74 \pm 0.17\%$). In contrast, epidural administration of either saline or Maropitant did not change ($p > 0.05$) the MAC ($2.17 \pm 0.34\%$ and $1.92 \pm 0.12\%$, respectively).				
Solvent&Solubility	In Vitro: DMSO : 33.33 mg/mL (71.12 mM; Need ultrasonic) H2O : < 0.1 mg/mL (insoluble)				
	Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
		1 mM	2.1337 mL	10.6685 mL	21.3370 mL
		5 mM	0.4267 mL	2.1337 mL	4.2674 mL
		10 mM	0.2134 mL	1.0668 mL	2.1337 mL
	<p>*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。</p> <p>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。</p> <p>In Vivo:</p> <p>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：</p> <p>——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</p> <p>1.请依序添加每种溶剂： 10% DMSO →90% corn oil</p> <p>Solubility: ≥ 2.5 mg/mL (5.33 mM); Clear solution</p> <p>此方案可获得 ≥ 2.5 mg/mL (5.33 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]. Hay Kraus BL. Efficacy of maropitant in preventing vomiting in dogs premedicated with hydromorphone. Vet Anaesth Analg. 2013 Jan;40(1):28-34.</p> <p>[2]. Lesman SP, Boucher JF, Grover GS, et al. The pharmacokinetics of maropitant citrate dosed orally to dogs at 2 mg/kg and 8 mg/kg once daily for 14 days consecutive days. J Vet Pharmacol Ther. 2012 Nov 20.</p> <p>[3]. Alvillar BM, Boscan P, Mama KR, et al. Effect of epidural and intravenous use of the neurokinin-1 (NK-1) receptor antagonist maropitant on the sevoflurane minimum alveolar concentration (MAC) in dogs. Vet Anaesth Analg. 2012 Mar;39(2):201-5.</p>				



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- [4]. Ramsey DS, Kincaid K, Watkins JA et al. Safety and efficacy of injectable and oral maropitant, a selective neurokinin 1 receptor antagonist, in a randomized clinical trial for treatment of vomiting in dogs. J Vet Pharmacol Ther. 2008 Dec;31(6):538-43. doi: 10.1111/j.1365-2885.2008.00992.x.
- [5]. Benchaoui HA, Cox SR, Schneider RP et al. The pharmacokinetics of maropitant, a novel neurokinin type-1 receptor antagonist, in dogs. J Vet Pharmacol Ther. 2007 Aug;30(4):336-44.
- [6]. Maropitant



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