

产品名称：左西孟旦  
产品别名：Levosimendan

生物活性:				
Description	Levosimendan (OR1259) is a calcium sensitiser used in the management of acutely decompensated congestive heart failure.			
In Vitro	Levosimendan (OR1259) is a calcium sensitiser used in the management of acutely decompensated congestive heart failure. Levosimendan (OR1259) is an inodilator indicated for the short-term treatment of acutely decompensated severe chronic heart failure, and in situations where conventional therapy is not considered adequate. Levosimendan (OR1259) has shown preliminary positive effects in a range of conditions requiring inotropic support, including right ventricular failure, cardiogenic shock, septic shock, and Takotsubo cardiomyopathy[1]. The cardiovascular effects of Levosimendan (OR1259) are exerted via more than an isolated drug-receptor interaction, and involve favorable energetic and neurohormonal changes that are unique in comparison to other types of inodilators[2]. Levosimendan (OR1259) might reduce mortality in cardiac surgery and cardiology settings of adult patients[3].			
Solvent&Solubility	<b>In Vitro:</b> <b>DMSO : ≥ 50 mg/mL (178.39 mM)</b>  * "≥" means soluble, but saturation unknown.			
	<div>Preparing Stock Solutions</div>	<div>Solvent Mass Concentration</div>	1 mg	5 mg
		1 mM	3.5679 mL	17.8393 mL
		5 mM	0.7136 mL	3.5679 mL
		10 mM	0.3568 mL	1.7839 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。			
	<b>In Vivo:</b>  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 <b>In Vitro</b> 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 (8.92 mM); Clear solution  此方案可获得 ≥ 2.5 mg/mL (8.92 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 (8.92 mM); Clear solution  此方案可获得 ≥ 2.5 mg/mL (8.92 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 生理盐水水溶液中，混合均匀。			

<b>References</b>	<p>[1]. <u>Nieminen, M.S., et al., Levosimendan: current data, clinical use and future development. Heart Lung Vessel, 2013. 5(4): p. 227-245.</u></p> <p>[2]. <u>Papp, Z., et al., Levosimendan: molecular mechanisms and clinical implications: consensus of experts on the mechanisms of action of levosimendan. Int J Cardiol, 2012. 159(2): p. 82-7.</u></p> <p>[3]. <u>Landoni, G., et al., Effects of levosimendan on mortality and hospitalization. A meta-analysis of randomized controlled studies. Crit Care Med, 2012. 40(2): p. 634-46.</u></p>



源叶生物