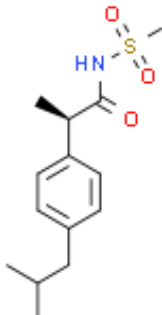


Product Data Sheet

Cas No.:	266359-83-5	Cat. No:	PC10642
Product Name:	Reparixin		
Product synonym:	瑞帕利辛		
Chemical name:	Reparixin		
MF:	C14H21NO3S	FW:	283.3864
Purity:	≥98%	Batch No.:	-
Storage:			
Structural formula:			
λmax:	-	Formulation:	-
Solubility :			
SMILES :	S(C([H])([H])([H])(N([H])C([C@]([H])(C([H])([H])([H])C1C([H])=C([H])C(=C([H])C=1[H])C([H])([H])C([H])(C([H])([H])([H])C([H])([H])([H])C([H])([H])([H])=O)(=O)=O		
InChI Code:	-		
InChI Key:			
WARNING This product is not for human or veterinary use.			

Product Description

CXCL8受体和CXCR1/CXCR2活化的抑制剂,Reparixin是趋化因子受体 CXCR1 和 CXCR2 激活的非竞争性变构抑制剂, IC50 分别为1 和 100 nM。瑞帕利辛 Reparixin是CXCL8诱导的人PMN生物活性的有效功能抑制剂, 对CXCR1具有显著的选择性(约400倍), 如CXCR1 / L1.2和CXCR2 / L1.2转染细胞和人类的特异性实验所示中性粒细胞

生物活性	Reparixin is a non-competitive allosteric inhibitor of the chemokine receptors CXCR1 and CXCR2 activation with IC₅₀s of 1 and 100 nM, respectively.			
IC50 & Target[1][2]	CXCR1 5.6 nM (IC ₅₀ , in L1.2 cells)	CXCR1 80 nM (IC ₅₀ , in L1.2 cells)	CXCR1 1 nM (IC ₅₀ , in cells)	CXCR2 ~100 nM (IC ₅₀ , in cells)

体外研究(In Vitro)	Reparixin is a potent functional inhibitor of CXCL8-induced biological activities on human PMNs with a marked selectivity (around 400-fold) for CXCR1, as shown in specific experiments on CXCR1/L1.2 and CXCR2/L1.2 transfected cells and on human PMNs. The efficacy of Reparixin is significantly lower in L1.2 cells expressing Ile43Val CXCR1 mutant (IC ₅₀ values of 5.6 nM and 80 nM for CXCR1 wt and CXCR1 Ile43Val, respectively). Reparixin is a non-competitive allosteric inhibitor of IL-8 receptors with a 400-fold higher efficacy in inhibiting CXCR1 activity than CXCR2. Medlife has not independently confirmed the accuracy of these methods. They are for reference only.																					
体内研究(In Vivo)	Reparixin is an inhibitor of CXCL8 receptor CXCR1 and CXCR2 activation, has been shown to attenuate inflammatory responses in various injury models. Spontaneously hypertensive rats (SHR) are administered a subcutaneous injection of Reparixin (5 mg/kg) daily for 3 weeks. Reparixin effectively decreases systolic blood pressure and increased the blood flow. Reparixin reduces the levels of IL-1β in the brain after middle cerebral artery occlusion/reperfusion (MCAo) in mice. Bars represent levels of IL-1β (pg/100 mg) measured by ELISA in the brain tissues of mice subjected or not (SHAM) to MCAo and pretreated with vehicle or Reparixin (30 mg/kg, s.c.). Medlife has not independently confirmed the accuracy of these methods. They are for reference only.																					
包装储存	<table><tr><td>Powder</td><td>-20°C</td><td>3 years</td></tr><tr><td></td><td>4°C</td><td>2 years</td></tr><tr><td>In solvent</td><td>-80°C</td><td>6 months</td></tr><tr><td></td><td>-20°C</td><td>1 month</td></tr></table>	Powder	-20°C	3 years		4°C	2 years	In solvent	-80°C	6 months		-20°C	1 month									
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In solvent	-80°C	6 months																				
	-20°C	1 month																				
体外研究: DMSO : ≥ 100 mg/mL (352.87 mM) H₂O : < 0.1 mg/mL (insoluble) * "≥" means soluble, but saturation unknown. <table><tr><td rowspan="4">配制储备溶液</td><td>溶剂体积 质量 浓度</td><td>1 mg</td><td>5 mg</td><td>10 mg</td></tr><tr><td>1 mM</td><td>3.5287 mL</td><td>17.6435 mL</td><td>35.2871 mL</td></tr><tr><td>5 mM</td><td>0.7057 mL</td><td>3.5287 mL</td><td>7.0574 mL</td></tr><tr><td>10 mM</td><td>0.3529 mL</td><td>1.7644 mL</td><td>3.5287 mL</td></tr></table> * 产品不同，其溶解度不同。建议根据产品选择合适的溶剂配制储备溶液；配成溶液后，建议分装保存，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，建议在 6 个月内使用，-20°C 储存时，建议在 1 个月内使用。 体内研究: 建议根据您的实验动物和给药方式选择适当的溶解方案。以下溶解方案都建议先按照 体外研究 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						配制储备溶液	溶剂体积 质量 浓度	1 mg	5 mg	10 mg	1 mM	3.5287 mL	17.6435 mL	35.2871 mL	5 mM	0.7057 mL	3.5287 mL	7.0574 mL	10 mM	0.3529 mL	1.7644 mL	3.5287 mL
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溶解度数据

1. 建议依照次序添加每种溶剂: 10% DMSO 40% PEG300 5% Tween-80 45% saline

Solubility: ≥ 2.5 mg/mL (8.82 mM); Clear solution

此方案可获得 ≥ 2.5 mg/mL (8.82 mM, 饱和度未知) 的澄清溶液。

以 1 mL 工作液为例, 取 100 μ L 25.0 mg/mL 的澄清 DMSO 储备液加到 400 μ L PEG300 中, 混合均匀; 向上述体系中加入 50 μ L Tween-80, 混合均匀; 然后继续加入 450 μ L 生理盐水定容至 1 mL。

将 0.9 g 氯化钠, 完全溶解于 100 mL ddH₂O 中, 得到澄清透明的生理盐水溶液

2. 建议依照次序添加每种溶剂: 10% DMSO 90% (20% SBE- β -CD in saline)

Solubility: ≥ 2.5 mg/mL (8.82 mM); Clear solution

此方案可获得 ≥ 2.5 mg/mL (8.82 mM, 饱和度未知) 的澄清溶液。

以 1 mL 工作液为例, 取 100 μ L 25.0 mg/mL 的澄清 DMSO 储备液加到 900 μ L 20% 的 SBE- β -CD 生理盐水中, 混合均匀。

将 2 g 磺丁基醚 β -环糊精加入 5 mL 生理盐水中, 再用生理盐水定容至 10 mL, 完全溶解, 澄清透明

3. 建议依照次序添加每种溶剂: 10% DMSO 90% corn oil

Solubility: ≥ 2.5 mg/mL (8.82 mM); Clear solution

此方案可获得 ≥ 2.5 mg/mL (8.82 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。

以 1 mL 工作液为例, 取 100 μ L 25.0 mg/mL 的澄清 DMSO 储备液加到 900 μ L 玉米油中, 混合均匀。

4. 建议依照次序添加每种溶剂: 5% DMSO 40% PEG300 5% Tween-80 50% saline

Solubility: ≥ 2.5 mg/mL (8.82 mM); Clear solution

5. 建议依照次序添加每种溶剂: 5% DMSO 95% (20% SBE- β -CD in saline)

Solubility: 2.5 mg/mL (8.82 mM); Suspended solution; Need ultrasonic

*