



上海源叶生物科技有限公司
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产品名称: **Cecropin B**
产品别名: **Cecropin B**

生物活性:					
Description	Cecropin B has high level of antimicrobial activity and is considered as a valuable peptide antibiotic.				
In Vitro	Cecropin B-induces NF-κB activation playing a pivotal role in the suppression of CYP3A29 through disrupting the association of the PXR/retinoid X receptor alpha (RXR-α) complex with DNA sequences. Cecropin B activates pig liver cells by interacting with TLRs 2 and 4, which modulated NF-κB-mediated signaling pathways[1].				
In Vivo	The wounds are moist with more exudation in C group, while that in other groups are dry without obvious exudation. The body temperature of the majority of the mice in each group is elevated, but the number of leucocytes in each group is lowered after operation. The quantity of bacteria in muscle in A group is obviously lower than that in M group and C group. The number of surviving mice after 4 PID in C group is evidently smaller than that in A and M groups(P<0. 05)[2].				
Solvent&Solubility	In Vitro: H ₂ O : 20 mg/mL (5.22 mM; Need ultrasonic and warming)				
		Solvent / Mass Concentration	1 mg	5 mg	10 mg
	Preparing	1 mM	0.2608 mL	1.3039 mL	2.6078 mL
	Stock Solutions	5 mM	0.0522 mL	0.2608 mL	0.5216 mL
		10 mM	---	---	---
*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。					
References	[1]. Zhou X et al. Cecropin B Represses CYP3A29 Expression through Activation of the TLR2/4-NF-κB/PXR Signaling Pathway. Sci Rep. 2016 Jun 14 [2]. Ren HT et al. [The antibacterial effect of cecropin B on pseudomonas aeruginosa infection of wounds in mice]. Zhonghua Shao Shang Za Zhi. 2006 Dec;22(6):445-7.				
实验参考:					
Animal Administration	Mice[1] Thirty ICR mice are enrolled in the study, and the Pseudomonas aeruginosa infection model is reproduced by excision of the full layer of dorsal skin with an area of 1 cm x 1 cm. Then they are randomly divided into C (control, n=10, with wet compress of isotonic saline at 3 postinjury hour (PIH)) , M (with hydropathic compress of 100 g/L mafenide at 3 PIH), A (with wet compress of 1 000 mg/L Cecropin B at 3 PIH) groups. The changes in body temperature and hemogram in each group are determined before and 4 days after injury[2].				
	[1]. Zhou X et al. Cecropin B Represses CYP3A29 Expression through Activation of the				



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References	TLR2/4-NF-κB/PXR Signaling Pathway. Sci Rep. 2016 Jun 14 [2]. Ren HT et al. [The antibacterial effect of cecropin B on pseudomonas aeruginosa infection of wounds in mice]. Zhonghua Shao Shang Za Zhi. 2006 Dec;22(6):445-7.
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