

Cecropin B

Chemical Properties

CAS No.:	80451-05-4
Formula:	C176H302N52O41S
Molecular Weight:	3834.67
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Cecropin B is a small antibacterial peptide from the giant silkworm, <i>Hyalophora cecropia</i> .
In vitro	Cecropin B induces NF- κ B 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 D sequences. Cecropin B activates pig liver cells by interacting with TLRs 2 and 4, which modulated NF- κ B-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].

Solubility Information

Solubility	H2O: 20 mg/mL (5.22 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.261 mL	1.304 mL	2.608 mL
5 mM	0.052 mL	0.261 mL	0.522 mL
10 mM	0.026 mL	0.13 mL	0.261 mL
50 mM	0.005 mL	0.026 mL	0.052 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Zhou X et al. Cecropin B Represses CYP3A29 Expression through Activation of the TLR2/4-NF- κ B/PXR Signaling Pathway. *Sci Rep.* 2016 Jun 14

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