

Cecropin B acetate

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Keep away from moisture
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Cecropin B acetate induces NF- κ B activation and suppresses CYP3A29 by disrupting the association of the PXR/retinoid X receptor alpha (RXR- α) complex with DNA sequences. Cecropin B acetate exhibits strong antimicrobial activity.
Targets(IC50)	Retinoid Receptor,Parasite,Cytochromes P450
In vitro	Cecropin B acetate activates pig liver cells by interacting with TLRs 2 and 4, which modulated NF- κ B-mediated signaling pathways[1].
In vivo	The wounds were moist with more exudation in C group,while that in other groups were dry without obvious exudation. The body temperature of the majority of the mice in each group were elevated, but the number of leucocytes in each group was lowered after operation. The quantity of bacteria in muscle in A group[(42 +/- 50) CFU/g] was obviously lower than that in M group [(886+/-804) CFU/g, P <0.05] , and it was all obviously lower than that in C group[(41 +/-28) x 10(5) CFU/g, P <0.01]. The number of surviving mice after 4 PID in C group was evidently smaller than that in A and M groups(P <0. 05)[2].

Reference

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

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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