

Peceleganan

Cat. No.:	HY-P3383
CAS No.:	850761-47-6
Molecular Formula:	C ₁₃₈ H ₂₂₆ N ₃₆ O ₃₄
Molecular Weight:	2933.5
Sequence Shortening:	Ac-KWKSFLKTFKSAAKTVLHTALKAISS-NH2
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	Peceleganan (PL-5) is an artificial antimicrobial cecropin A (1-10) × melittin B (3-18) hybrid (10+16)-peptide analogue. Peceleganan inhibits wound infection ^[1] .
In Vitro	Peceleganan (24 h) shows antibacterial activity with MICs of 2, 2, 4, 4, 4 and 8 μM against E. coli ATCC 25922, S. pneumonia ATCC 49619, K. pneumonia ATCC 700603, S. aureus ATCC 25923, S. epidermidis ATCC 12228 and P. aeruginosa ATCC 27853, respectively ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Peceleganan (0.4 and 0.75 mg/mL for 100 μL; transdermal; twice daily for 3 days) inhibits Staphylococcus aureus in the mouse infection model ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
Animal Model:	ICR male mice (20-25 g), S. aureus ATCC 25923 wound infection model ^[2]
Dosage:	0.4 and 0.75 mg/mL for 100 μL
Administration:	Transdermal administration, twice daily for 3 days
Result:	Significantly reduced the amount of bacteria.

REFERENCES

[1]. WHO Drug Information. International Nonproprietary Names for Pharmaceutical.

[2]. Feng Q, et al. Functional synergy of α-helical antimicrobial peptides and traditional antibiotics against Gram-negative and Gram-positive bacteria in vitro and in vivo. Eur J Clin Microbiol Infect Dis. 2015 Jan;34(1):197-204.

Caution: Product has not been fully validated for medical applications. For research use only.

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