

SAAP 148

Cat. No.:	HY-P10233
Molecular Formula:	C ₁₅₇ H ₂₆₁ N ₄₉ O ₂₇
Molecular Weight:	3267.06
Sequence:	Ac-Leu-Lys-Arg-Val-Trp-Lys-Arg-Val-Phe-Lys-Leu-Leu-Lys-Arg-Tyr-Trp-Arg-Gln-Leu-Lys-Lys-Pro-Val-Arg-NH ₂
Sequence Shortening:	Ac-LKRVWKRVFKLLKRYWRQLKKPVR-NH ₂
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	SAAP 148 is an antimicrobial and antibiofilm agent, and exhibits inhibitory efficacy against antibiotic-resistant pathogens, with LC ₅₀ of 0.8-12.8 μM ^[1] .	
In Vitro	SAAP 148 inhibits <i>S. aureus</i> and <i>P. aeruginosa</i> with LC ₉₉ of 1.6, 1.6, 12.8 and 12.8 μM, in PBS and in plasma, respectively ^[1] . SAAP-148 (0.4-3.2 μM, 2 h) interacts and permeabilizes the bacterial membrane, resulting the bacterial death ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
In Vivo	SAAP-148 (30 mg of 0.125-2% w/w ointment, apply on skin, single dose) eradicates Methicillin (HY-121544)-resistant <i>S. aureus</i> (MRSA) and <i>A. baumannii</i> from the skin, attenuates abraded skin infection in mice model, without toxicity (2000 mg/kg) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	Abraded skin infection in C57BL/6J mice model ^[1]
	Dosage:	30 mg of 0.125-2% w/w ointment
	Administration:	apply on skin, single dose
	Result:	Eradicated MRSA and <i>A. baumannii</i> , attenuated abraded skin infection

REFERENCES

[1]. de Brij A, et al., The antimicrobial peptide SAAP-148 combats drug-resistant bacteria and biofilms. *Sci Transl Med.* 2018 Jan 10;10(423):eaan4044.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA