

## HG4

<b>Cat. No.:</b>	HY-P5709
<b>Molecular Formula:</b>	C <sub>99</sub> H <sub>182</sub> N <sub>26</sub> O <sub>24</sub>
<b>Molecular Weight:</b>	2120.66
<b>Sequence:</b>	Val-Leu-Gly-Leu-Ala-Leu-Ile-Val-Gly-Gly-Ala-Leu-Leu-Ile-Lys-Lys-Lys-Gln-Ala-Lys-Ser
<b>Sequence Shortening:</b>	VLGLALIVGGALLIKKKQAKS
<b>Target:</b>	Bacterial
<b>Pathway:</b>	Anti-infection
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.

## BIOLOGICAL ACTIVITY

<b>Description</b>	HG4 is a fast-acting antimicrobial peptide. HG4 shows anti-biofilm and anti-inflammatory activities. HG4 is active against Gram-positive pathogens, especially against MRSA strains (MIC: 32-64 µg/mL). HG4 can bind to bacterial lipids and reduces ATP concentration in <i>S. aureus</i> MRSA USA300 cells <sup>[1]</sup> .
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## REFERENCES

[1]. Oyama LB, et al. In silico identification of two peptides with antibacterial activity against multidrug-resistant *Staphylococcus aureus*. NPJ Biofilms Microbiomes. 2022 Jul 14;8(1):58.

**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