

## SpHistin

<b>Cat. No.:</b>	HY-P5680
<b>Molecular Formula:</b>	C <sub>170</sub> H <sub>293</sub> N <sub>61</sub> O <sub>45</sub> S
<b>Molecular Weight:</b>	3943.59
<b>Sequence:</b>	Met-Ala-Gly-Gly-Lys-Ala-Gly-Lys-Asp-Ser-Gly-Lys-Ala-Lys-Ala-Lys-Ala-Val-Ser-Arg-Ser-Ala-Arg-Ala-Gly-Leu-Gln-Phe-Pro-Val-Gly-Arg-Ile-His-Arg-His-Leu-Lys
<b>Sequence Shortening:</b>	MAGGKAGKDSGKAKAKAVRSARAGLQFPVGRHRHLK
<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

#### Description

SpHistin is an antimicrobial peptide (AMP). SpHistin can bind to LPS (HY-D1056) and permeabilize the bacterial membrane. SpHistin combined with Rifampicin (HY-B0272) and Azithromycin (HY-17506) promotes the intracellular uptake of the antibiotics and subsequently enhances the bactericidal activity of both agents against *P. aeruginosa*<sup>[1]</sup>.

### REFERENCES

[1]. Jie Liu, et al. The Synergistic Effect of Mud Crab Antimicrobial Peptides Sphistin and Sph12-38 With Antibiotics Azithromycin and Rifampicin Enhances Bactericidal Activity Against *Pseudomonas Aeruginosa*. *Front Cell Infect Microbiol.* 2020 Oct 23;10:572849.

**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