

K11

Cat. No.:	HY-P5704
CAS No.:	1398109-79-9
Molecular Formula:	C ₁₂₃ H ₁₉₈ N ₃₂ O ₂₃
Molecular Weight:	2493.09
Sequence:	Lys-Trp-Lys-Ser-Phe-Ile-Lys-Lys-Leu-Thr-Lys-Lys-Phe-Leu-His-Ser-Ala-Lys-Lys-Phe-NH ₂
Sequence Shortening:	KWKSFIKLTKKFLHSAKKF-NH ₂
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description

K11 is an antimicrobial peptide. K11 is active against MDR/XDR *K. pneumoniae* isolates (MIC: 8-512 µg/mL), and inhibits bacterial biofilm formation. K11 can act synergistically with antibiotics (Chloramphenicol (HY-B0239), Meropenem (HY-13678), Rifampicin (HY-B0272), etc.) against drug-resistant *K. pneumoniae*. K11 has high thermal and wide pH stability^[1].

REFERENCES

[1]. Chatupheeraphat C, et al. Synergistic effect and antibiofilm activity of the antimicrobial peptide K11 with conventional antibiotics against multidrug-resistant and extensively drug-resistant *Klebsiella pneumoniae*. *Front Cell Infect Microbiol.* 2023 Apr 11;13:1153868.

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

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