

Polyphemusin I

Cat. No.:	HY-P1631
CAS No.:	125139-67-5
Molecular Formula:	C ₁₀₈ H ₁₆₁ N ₃₉ O ₂₀ S ₄
Molecular Weight:	2453.94
Sequence:	Arg-Arg-Trp-Cys-Phe-Arg-Val-Cys-Tyr-Arg-Gly-Phe-Cys-Tyr-Arg-Lys-Cys-Arg-NH ₂ (Disulfide bridge:Cys4-Cys17,Cys8-Cys13)
Sequence Shortening:	RRWCFRVCYRGFCYRKCR-NH ₂ (Disulfide bridge:Cys4-Cys17,Cys8-Cys13)
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description

Polyphemusin I is a natural antimicrobial peptide with excellent antimicrobial activity against Gram-negative and Gram-positive bacteria. Polyphemusin I contains 18 amino acids and is stabilized into an amphiphilic, antiparallel β -hairpin by two disulfide bridges^[1].

REFERENCES

[1]. Jon-Paul S Powers, et al. The antimicrobial peptide polyphemusin localizes to the cytoplasm of Escherichia coli following treatment. Antimicrob Agents Chemother. 2006 Apr;50(4):1522-4.

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

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