

## Tachyplesin I

<b>Cat. No.:</b>	HY-P1632
<b>CAS No.:</b>	118231-04-2
<b>Molecular Formula:</b>	C <sub>99</sub> H <sub>151</sub> N <sub>35</sub> O <sub>19</sub> S <sub>4</sub>
<b>Molecular Weight:</b>	2263.74
<b>Sequence:</b>	Lys-Trp-Cys-Phe-Arg-Val-Cys-Tyr-Arg-Gly-Ile-Cys-Tyr-Arg-Arg-Cys-Arg-NH <sub>2</sub> (Disulfide bridge: Cys3-Cys16, Cys7-Cys12)
<b>Sequence Shortening:</b>	KWCFRVCYRGICYRRCR-NH <sub>2</sub> (Disulfide bridge: Cys3-Cys16, Cys7-Cys12)
<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

Tachyplesin I is a  $\beta$ -hairpin antimicrobial peptide that contains 17 amino acid residues. Tachyplesin I exhibits cytotoxic properties against various human tumor cell lines acting primarily by impairing the integrity of the outer cell membrane<sup>[1]</sup>.

### REFERENCES

[1]. D.V Kuzmin, et al. In Vitro Study of Antitumor Effect of Antimicrobial Peptide Tachyplesin I in Combination with Cisplatin. Bull Exp Biol Med. 2018 Jun;165(2):220-224.

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

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