

## EcAMP3

<b>Cat. No.:</b>	HY-P5071
<b>CAS No.:</b>	2243219-65-8
<b>Molecular Formula:</b>	C <sub>172</sub> H <sub>282</sub> N <sub>72</sub> O <sub>57</sub> S <sub>5</sub>
<b>Molecular Weight:</b>	4430.85
<b>Sequence:</b>	Gly-Ala-Asp-Arg-Cys-Arg-Glu-Arg-Cys-Glu-Arg-Arg-His-Arg-Gly-Asp-Trp-Gln-Gly-Lys-Gln-Arg-Cys-Leu-Met-Glu-Cys-Arg-Arg-Arg-Glu-Gln-Glu-Glu-Asp (Disulfide bridge: Cys5-Cys27,Cys9-Cys23)
<b>Sequence Shortening:</b>	GADRCRERCERRHRGDWQKQKQCLMECRRRQEED (Disulfide bridge: Cys5-Cys27,Cys9-Cys23)
<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

EcAMP3 is a hairpin-like peptide. EcAMP3 has antifungal and antibacterial activity. EcAMPs precursor family contains seven identical cysteine motifs: C1XXXC2(11-13)C3XXXC4<sup>[1]</sup>.

### REFERENCES

[1]. Dmitry Yu. Ryazantsev, et al. A novel hairpin-like antimicrobial peptide from barnyard grass (*Echinochloa crusgalli* L.) seeds: Structure-functional and molecular-genetics characterization. *Biochimie*. 2014, 99.

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

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