## Anthopleurin-A TFA

Cat. No.:	HY-P4898A	
Molecular Formula: Sequence:	C <sub>220</sub> H <sub>326</sub> N <sub>64</sub> O <sub>67</sub> S <sub>6</sub> .xC <sub>2</sub> HF <sub>3</sub> O <sub>2</sub> Gly-Val-Ser-Cys-Leu-Cys-Asp-Ser-Asp-Gly-Pro-Ser-Val-Arg-Gly-Asn-Thr-Leu-Ser-Gly-Th r-Leu-Trp-Leu-Tyr-Pro-Ser-Gly-Cys-Pro-Ser-Gly-Trp-His-Asn-Cys-Lys-Ala-His-Gly-Pro-T	Gly-Val-Ser-Cys-Leu-Cys-Asp-Ser-Asp- Gly-Pro-Ser-Val-Arg-Gly-Asn-Thr-Leu- Ser-Gly-Thr-Leu-Trp-Leu-Tyr-Pro-Ser- Gly-Cys-Pro-Ser-Gly-Trp-His-Asn-Cys- Lys-Ala-His-Gly-Pro-Thr-Ile-Gly-Trp-Cys- Cys-Lys-Gln (Disulfide bridge: Cys <sub>4</sub> - Cys <sub>46</sub> ,Cys <sub>6</sub> -Cys <sub>36</sub> ,Cys <sub>29</sub> - Cys <sub>47</sub> ) (TFA salt)
Sequence Shortening:	GVSCLCDSDGPSVRGNTLSGTLWLYPSGCPSGWHNCKAHGPTIGWCCKQ (Disulfide bridge: Cys4-Cys46,Cys6-Cys36,Cys29-Cys47)	
Target: Pathway:	Sodium Channel Membrane Transporter/Ion Channel	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

 BIOLOGICAL ACTIVITY

 Description
 Anthopleurin-A TFA is a soidum channel toxin. Anthopleurin-A TFA is selective for cardiac channels and has cardiotonic effect. Anthopleurin-A TFA can be isolated from the sea anemone<sup>[1][2]</sup>.

 In Vitro
 Anthopleurin-A (2 nM-640 nM) TFA increases the force of contractions of isolated cat heart papillary muscles<sup>[2]</sup>. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

 In Vivo
 Anthopleurin-A (0.2 µg/kg/min i.v.) TFA increases myocardial contractile force in anesthetized dogs<sup>[2]</sup>. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

## REFERENCES

[1]. Honma T, Shiomi K. Peptide toxins in sea anemones: structural and functional aspects. Mar Biotechnol (NY). 2006 Jan-Feb;8(1):1-10.

[2]. Scriabine A, et al. Cardiotonic effects of anthopleurin-A, a polypeptide from a sea anemone. J Cardiovasc Pharmacol. 1979 Sep-Oct;1(5):571-83.

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

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