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Zuschläge

- Mindermengenzuschlag
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- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

Anthopleurin-A TFA

Cat. No.:	HY-P4898A	
Molecular Formula:	C ₂₂₀ H ₃₂₆ N ₆₄ O ₆₇ S ₆ ·xC ₂ HF ₃ O ₂	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-Tyr-Ile-Gly-Trp-Cys-Cys-Lys-Gln (Disulfide bridge: Cys4-Cys46, Cys6-Cys36, Cys29-Cys47)
Sequence:		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-Tyr-Ile-Gly-Trp-Cys-Cys-Lys-Gln (Disulfide bridge: Cys4-Cys46, Cys6-Cys36, Cys29-Cys47)
Sequence Shortening:	GVSLCDSGSPVRGNTLSGTLWLYPSPGCPGWHNCKAHGPTIGWCKQ (Disulfide bridge: Cys4-Cys46, Cys6-Cys36, Cys29-Cys47)	Cys-Lys-Gln (Disulfide bridge: Cys ₄ -Cys ₄₆ , Cys ₆ -Cys ₃₆ , Cys ₂₉ -Cys ₄₇) (TFA salt)
Target:	Sodium Channel	
Pathway:	Membrane Transporter/Ion Channel	
Storage:	Sealed storage, away from moisture Powder -80°C 2 years -20°C 1 year	

* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 50 mg/mL (Need ultrasonic)
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BIOLOGICAL ACTIVITY

Description	Anthopleurin-A TFA is a sodium channel toxin. Anthopleurin-A TFA is selective for cardiac channels and has cardiotoxic effect. Anthopleurin-A TFA can be isolated from the sea anemone ^{[1][2]} .
In Vitro	Anthopleurin-A (2 nM-640 nM) TFA increases the force of contractions of isolated cat heart papillary muscles ^[2] . 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 ^[2] . 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. Cardiotoxic 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.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA