

ATX-II TFA

Cat. No.:	HY-P1604A	
Molecular Formula:	C ₂₁₃ H ₃₂₃ N ₆₃ O ₆₁ S ₆ ·xC ₂ HF ₃ O ₂	
Sequence:	Gly-Val-Pro-Cys-Leu-Cys-Asp-Ser-Asp-Gly-Pro-Ser-Val-Arg-Gly-Asn-Thr-Leu-Ser-Gly-Ile-Ile-Trp-Leu-Ala-Gly-Cys-Pro-Ser-Gly-Trp-His-Asn-Cys-Lys-Lys-His-Gly-Pro-Thr-Ile-Gly-Trp-Cys-Cys-Lys-Gln (Disulfide bonds: Cys4-Cys44, Cys6-Cys34, Cys27-Cys45)	Gly-Val-Pro-Cys-Leu-Cys-Asp-Ser-Asp-Gly-Pro-Ser-Val-Arg-Gly-Asn-Thr-Leu-Ser-Gly-Ile-Ile-Trp-Leu-Ala-Gly-Cys-Pro-Ser-Gly-Trp-His-Asn-Cys-Lys-Lys-His-Gly-Pro-Thr-Ile-Gly-Trp-Cys-Cys-Lys-Gln (Disulfide bonds: Cys4-Cys44, Cys6-Cys34, Cys27-Cys45) (TFA salt)
Sequence Shortening:	GVPCLCSDGSPVRGNTLSGIIWLAGCPSGWHNCKKHGPTIGWCKKQ (Disulfide bonds: Cys4-Cys44, Cys6-Cys34, Cys27-Cys45)	
Target:	Sodium Channel	
Pathway:	Membrane Transporter/Ion Channel	
Storage:	Sealed storage, away from moisture and light Powder -80°C 2 years -20°C 1 year	
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)	

SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 100 mg/mL (Need ultrasonic)
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BIOLOGICAL ACTIVITY

Description	ATX-II TFA is a specific Na ⁺ channel Modulator toxin that can be isolated from the venom of sea anemone (<i>Anemonia sulcata</i>). ATX-II TFA causes delayed inactivation of the Na ⁺ [1][2].
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REFERENCES

- [1]. Fletcher JE, et al. ATX II, a sodium channel toxin, sensitizes skeletal muscle to halothane, caffeine, and ryanodine. *Anesthesiology*. 1999 May;90(5):1294-301.
- [2]. Lu YY, et al. ATX-II-induced pulmonary vein arrhythmogenesis related to atrial fibrillation and long QT syndrome. *Eur J Clin Invest*. 2012 Aug;42(8):823-31.

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

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