

Cn2 toxin TFA

Cat. No.:	HY-P5807A
Molecular Formula:	C ₃₃₆ H ₄₉₆ N ₉₀ O ₉₆ S ₈ ·xC ₂ HF ₃ O ₂
Sequence:	Lys-Glu-Gly-Tyr-Leu-Val-Asp-Lys-Asn-Thr-Gly-Cys-Lys-Tyr-Glu-Cys-Leu-Lys-Leu-Gly-Asp-Asn-Asp-Tyr-Cys-Leu-Arg-Glu-Cys-Lys-Gln-Gln-Tyr-Gly-Lys-Gly-Ala-Gly-Gly-Tyr-Cys-Tyr-Ala-Phe-Ala-Cys-Trp-Cys-Thr-His-Leu-Tyr-Glu-Gln-Ala-Ile-Val-Trp-Pro-Leu-Pro-Asn-Lys-Arg-Cys-Ser-NH ₂ (Disulfide bridge:Cys12-Cys65;Cys16-Cys41;Cys25-Cys46;Cys29-Cys48) <small>KEGYLVQNTGCKYECLKLGNDYCLRECKQYQYKGGAGGYCYAFACWCTHLYEQAIWVPLPNK (Disulfide bridge:Cys12-Cys65;Cys16-Cys41;Cys25-Cys46;Cys29-Cys48) (TFA salt)</small>
Sequence Shortening:	KEGYLVQNTGCKYECLKLGNDYCLRECKQYQYKGGAGGYCYAFACWCTHLYEQAIWVPLPNK RCS-NH ₂ (Disulfide bridge:Cys12-Cys65;Cys16-Cys41;Cys25-Cys46;Cys29-Cys48)
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	DMSO : 50 mg/mL (Need ultrasonic)
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BIOLOGICAL ACTIVITY

Description	Cn2 toxin TFA (β-Mammal toxin Cn2 TFA) is a single-chain β-scorpion neurotoxic peptide that is the main toxin in scorpion venom. Cn2 toxin (TFA) specifically targets mammalian voltage-gated sodium channels (VGSC) Nav1.6 ^[1] .
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REFERENCES

[1]. Chen R, et al. Conserved functional surface of antimammalian scorpion β-toxins. J Phys Chem B. 2012 Apr 26;116(16):4796-800.

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