

Chlorotoxin TFA

Cat. No.:	HY-P0173B
Molecular Formula:	C ₁₅₈ H ₂₄₉ N ₅₃ O ₄₇ S ₁₁ .xC ₂ HF ₃ O ₂
Sequence:	Met-Cys-Met-Pro-Cys-Phe-Thr-Thr-Asp-His-Gln-Met-Ala-Arg-Lys-Cys-Asp-Asp-Cys-Cys-Gly-Gly-Lys-Gly-Arg-Gly-Lys-Cys-Tyr-Gly-Pro-Gln-Cys-Leu-Cys-Arg-NH ₂ (Disulfide bridge: Cys2-Cys19, Cys5-Cys28, Cys16-Cys33, Cys20-Cys35) MCMPCFTTDHQMARCDDCCGGKGRGKCYGPQCLCR-NH₂(Disulfide bridge: Cys2-Cys19, Cys5-Cys28, Cys16-Cys33, Cys20-Cys35) (TFA salt)
Sequence Shortening:	MCMPCFTTDHQMARCDDCCGGKGRGKCYGPQCLCR-NH ₂ (Disulfide bridge: Cys2-Cys19, Cys5-Cys28, Cys16-Cys33, Cys20-Cys35)
Target:	Chloride 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 : 100 mg/mL (Need ultrasonic) H ₂ O : 33.33 mg/mL (Need ultrasonic)
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BIOLOGICAL ACTIVITY

Description	Chlorotoxin TFA is a peptide isolated from the venom of the scorpion <i>Leiurus quinquestriatus</i> , acts as a chloride channel blocker ^[1] . Anti-cancer activity ^[2] .
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CUSTOMER VALIDATION

- Pain. 2021 Jun 1;162(6):1882-1896.

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REFERENCES

- [1]. DeBin JA, et al. Purification and characterization of chlorotoxin, a chloride channel ligand from the venom of the scorpion. *Am J Physiol.* 1993 Feb;264(2 Pt 1):C361-9.
- [2]. Ojeda PG, et al. Chlorotoxin: Structure, activity, and potential uses in cancer therapy. *Biopolymers.* 2016 Jan;106(1):25-36.

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

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