

Chlorotoxin TFA

Cat. No.:	HY-P0173B	
Molecular Formula:	C ₁₆₀ H ₂₅₀ F ₃ N ₅₃ O ₄₉ S ₁₁	
Molecular Weight:	4109.74	
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-NH ₂ (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

H₂O : 12.5 mg/mL (3.04 mM; Need ultrasonic)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		0.2433 mL	1.2166 mL	2.4332 mL
	5 mM		---	---	---
	10 mM		---	---	---

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Chlorotoxin TFA is a peptide isolated from the venom of the scorpion *Leiurus quinquestriatus*, acts as a chloride channel blocker^[1]. Anti-cancer activity^[2].

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

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