

Ceratotoxin-2

Cat. No.:	HY-P5810
CAS No.:	880885-98-3
Molecular Formula:	C ₁₇₇ H ₂₆₀ N ₅₂ O ₄₉ S ₆
Molecular Weight:	4092.67
Sequence:	Asp-Cys-Leu-Gly-Trp-Phe-Lys-Ser-Cys-Asp-Pro-Lys-Asn-Asp-Lys-Cys-Cys-Lys-Asn-Tyr-Thr-Cys-Ser-Arg-Arg-Asp-Arg-Trp-Cys-Lys-Tyr-Tyr-Leu-NH ₂ (Disulfide bridge:Cys2-Cys17;Cys9-Cys22;Cys16-Cys29)
Sequence Shortening:	DCLGWFKSCDPKNDKCKCKNYTCSRDRWCKYYL-NH ₂ (Disulfide bridge:Cys2-Cys17;Cys9-Cys22;Cys16-Cys29)
Target:	Sodium Channel
Pathway:	Membrane Transporter/Ion Channel
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	Ceratotoxin-2 (CcoTx2) is a voltage-gated sodium channel blocker with IC ₅₀ s of 8 nM and 88 nM against Na _v 1.2/β ₁ and Na _v 1.3/β ₁ , respectively ^[1] .
IC₅₀ & Target	IC ₅₀ : 8 nM (Na _v 1.2/β ₁), 88 nM (Na _v 1.3/β ₁), 400 nM (Na _v 1.4/β ₁), 407 nM (Na _v 1.1/β ₁), 1634 nM (Na _v 1.5/β ₁) ^[1]

REFERENCES

[1]. Bosmans F, et al. Four novel tarantula toxins as selective modulators of voltage-gated sodium channel subtypes. Mol Pharmacol. 2006 Feb;69(2):419-29.

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

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