

μ-Conotoxin-CnIIIC

Cat. No.:	HY-P1952
CAS No.:	936616-33-0
Molecular Formula:	C ₉₂ H ₁₃₉ N ₃₅ O ₂₈ S ₆
Molecular Weight:	2375.7
Sequence:	{Glp}-Gly-Cys-Cys-Asn-Gly-Pro-Lys-Gly-Cys-Ser-Ser-Lys-Trp-Cys-Arg-Asp-His-Ala-Arg-Cys-Cys-NH ₂ (Disulfide bridge: Cys3-Cys15, Cys4-Cys21, Cys10-Cys22)
Sequence Shortening:	{Glp}-GCCNGPKGCSSKWC RDHARCC-NH ₂ (Disulfide bridge: Cys3-Cys15, Cys4-Cys21, Cys10-Cys22)
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	μ-Conotoxin-CnIIIC is a 22-residue conopeptide that can be isolated from <i>Conus consors</i> . μ-Conotoxin-CnIIIC is a potent and persistent blocker of Na _v 1.4 channel. μ-Conotoxin-CnIIIC has analgesic, anaesthetic and myorelaxant properties ^{[1][2]} .
IC₅₀ & Target	NaV1.4 Channel ^[2]

REFERENCES

[1]. Markgraf R, et al. Mechanism and molecular basis for the sodium channel subtype specificity of μ-conopeptide CnIIIC. *Br J Pharmacol.* 2012 Oct;167(3):576-86.

[2]. Del Río-Sancho S, et al. Cutaneous iontophoresis of μ-conotoxin CnIIIC-A potent NaV1.4 antagonist with analgesic, anaesthetic and myorelaxant properties. *Int J Pharm.* 2017 Feb 25;518(1-2):59-65.

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

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