μ-Conotoxin-CnIIIC acetate

Cat. No.: HY-P1952A

Molecular Formula: $C_{92}H_{139}N_{35}O_{28}S_6.xC_2H_4O_2$

Sequence: {Glp}-Gly-Cys-Cys-Asn-Gly-Pro-Lys-Gly-Cys-Ser-Ser-Lys-Trp-Cys-Arg-Asp-His-Ala-Arg-Cys-Cys-NH2 (Disulfide bridge: Cys3-Cys15, Cys4-Cys21, Cys10-Cys22)

{Glp}-GCCNGPKGCSSKWCRDHARCC-NH_2 (Disulfide bridge: Cys_3-Cys_{15}, Cys_4-Cys_{21}, Cys_{10}-Cys_{22}) (acetate salt)

Sequence Shortening: {Glp}-GCCNGPKGCSSKWCRDHARCC-NH2 (Disulfide bridge: Cys3-Cys15, Cys4-Cys21, Cys10-Cys22)

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	H_2O : 100 mg/mL (Need ultrasonic)

BIOLOGICAL ACTIVITY

Description	μ-Conotoxin-CnIIIC acetate, a 22-residue conopeptide, is a potent antagonist of the voltage-gated NaV1.4 sodium channel with an IC_{50} of 1.3 nM acting at the neuromuscular junction. μ-Conotoxin-CnIIIC acetate has myorelaxant and analgesic effects[1].
IC_{50} & Target	Nav1.4 1.3 nM (IC_{50})

REFERENCES

[1]. 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.

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