

α C-Conotoxin PrXA

Cat. No.:	HY-P5149
Molecular Formula:	C ₁₆₀ H ₂₄₇ N ₄₃ O ₄₄ S ₂
Molecular Weight:	3541.06
Sequence:	Thr-Tyr-Gly-Ile-Tyr-Asp-Ala-Lys-Pro-{Hyp}-Phe-Ser-Cys-Ala-Gly-Leu-Arg-Gly-Gly-Cys-V al-Leu-Pro-{Hyp}-Asn-Leu-Arg-{Hyp}-Lys-Phe-Lys-Glu-NH ₂ (Disulfide bridge:Cys13-Cys 20) <small>TYGIYDAKP-{Hyp}-FSCAGLRGGCVLP-{Hyp}-NLR-{Hyp}-KFKE-NH₂ (Disulfide bridge:Cys13-Cys20)</small>
Sequence Shortening:	TYGIYDAKP-{Hyp}-FSCAGLRGGCVLP-{Hyp}-NLR-{Hyp}-KFKE-NH ₂ (Disulfide bridge:Cys 13-Cys20)
Target:	nAChR
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Sealed storage, away from moisture and light, under nitrogen 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, under nitrogen)

SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (28.24 mM; Need ultrasonic)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		0.2824 mL	1.4120 mL	2.8240 mL
	5 mM		0.0565 mL	0.2824 mL	0.5648 mL
	10 mM		0.0282 mL	0.1412 mL	0.2824 mL

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

BIOLOGICAL ACTIVITY

Description

α C-Conotoxin PrXA is a paralytic peptide neurotoxin and a competitive nAChR antagonist, with IC₅₀s of 1.8 nM (α 1 β 1 ϵ δ , adult) and 3.0 nM (α 1 β 1 γ δ , fetal), respectively. α C-Conotoxin PrXA competes with α -bungarotoxin at the α/δ and α/γ subunit interfaces of the nAChR, shows high specificity against neuromuscular nAChR^[1].

IC₅₀ & Target

IC₅₀: 1.8 nM (α 1 β 1 ϵ δ , adult) and 3.0 nM (α 1 β 1 γ δ , fetal)^[1]

REFERENCES

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

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