

α A-Conotoxin PIVA

Cat. No.:	HY-P5856
CAS No.:	171439-59-1
Molecular Formula:	C ₁₀₃ H ₁₅₀ N ₃₄ O ₃₇ S ₆
Molecular Weight:	2648.89
Sequence:	Gly-Cys-Cys-Gly-Ser-Tyr-{Hyp}-Asn-Ala-Ala-Cys-His-{Hyp}-Cys-Ser-Cys-Lys-Asp-Arg-{Hyp}-Ser-Tyr-Cys-Gly-Gln-NH ₂ (Disulfide bridge:Cys2-Cys16, Cys3-Cys11, Cys14-Cys23)
Sequence Shortening:	GCCGSY-{Hyp}-NAACH-{Hyp}-CSCKDR-{Hyp}-SYCGQ-NH ₂ (Disulfide bridge:Cys2-Cys16, Cys3-Cys11, Cys14-Cys23)
Target:	nAChR
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	α A-Conotoxin PIVA is a selective mouse musclenAChR inhibitor with IC ₅₀ for adult and fetal mouse musclenAChR sub> values are 2.3 nM and 22 nM respectively. α A-Conotoxin PIVA can be used in the study of neurological diseases.
IC ₅₀ & Target	IC50: 2.3-22 nM (nAChR) ^[1] .

REFERENCES

[1]. Teichert RW, et al. Definition and characterization of the short alphaA-conotoxins: a single residue determines dissociation kinetics from the fetal muscle nicotinic acetylcholine receptor. Biochemistry. 2006 Jan 31;45(4):1304-12.

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

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