

α A-Conotoxin OIVA

Cat. No.:	HY-P5849
CAS No.:	878027-87-3
Molecular Formula:	C ₇₀ H ₁₁₀ N ₂₄ O ₂₃ S ₆
Molecular Weight:	1848.16
Sequence:	Cys-Cys-Gly-Val-{Hyp}-Asn-Ala-Ala-Cys-His-{Hyp}-Cys-Val-Cys-Lys-Asn-Thr-Cys-NH ₂ (Disulfide bridge:Cys1-Cys9;Cys2-Cys14;Cys12-Cys18)
Sequence Shortening:	CCGV-{Hyp}-NAACH-{Hyp}-CVCKNTC-NH ₂ (Disulfide bridge:Cys1-Cys9;Cys2-Cys14;Cys12-Cys18)
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 OIVA (α A-OIVA) is a selective nAChR antagonist with an IC₅₀ of 56 nM against mammalian fetal muscle nAChR. α A-Conotoxin OIVA is a peptide that can be derived from conotoxin. α A-Conotoxin OIVA paralyzes muscles^{[1][2]}.

REFERENCES

- [1]. Teichert RW, et al. A uniquely selective inhibitor of the mammalian fetal neuromuscular nicotinic acetylcholine receptor. *J Neurosci.* 2005 Jan 19;25(3):732-6.
- [2]. Teichert RW, et al. AlphaA-Conotoxin OIVA defines a new alphaA-conotoxin subfamily of nicotinic acetylcholine receptor inhibitors. *Toxicon.* 2004 Aug;44(2):207-14.

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

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