

## αO-Conotoxin GeXIVA

Cat. No.:	HY-P5848
CAS No.:	2010167-25-4
Molecular Formula:	C <sub>139</sub> H <sub>227</sub> N <sub>55</sub> O <sub>41</sub> S <sub>4</sub>
Molecular Weight:	3452.89
Sequence:	Thr-Cys-Arg-Ser-Ser-Gly-Arg-Tyr-Cys-Arg-Ser-Pro-Tyr-Asp-Arg-Arg-Arg-Arg-Tyr-Cys-Arg-Arg-Ile-Thr-Asp-Ala-Cys-Val (Disulfide bridge:Cys2-Cys9;Cys20-Cys27)
Sequence Shortening:	TCRSSGRYCRSPYDRRRRYCRRITDACV (Disulfide bridge:Cys2-Cys9;Cys20-Cys27)
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	αO-Conotoxin GeXIVA is a potent α9α10 nAChR antagonist with an IC <sub>50</sub> of 12 nM against rat α9α10. αO-Conotoxin GeXIVA shows analgesic in animal models of pain <sup>[1]</sup> .
IC <sub>50</sub> & Target	IC <sub>50</sub> : 12 nM (rat α9α10), 52 nM (human α9α10), 520 nM (mouse α1β1δε), 660 nM (rat α7), 940 nM (rat α3β2), 1380 nM (rat α6/α3β4), 1610 nM (rat α2β2), 6930 nM (rat α3β4) <sup>[1]</sup>

### REFERENCES

[1]. Xu P, et al. Structure and Activity Studies of Disulfide-Deficient Analogues of αO-Conotoxin GeXIVA. J Med Chem. 2020 Feb 27;63(4):1564-1575.

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

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