

## Iota-conotoxin RXIA

Cat. No.:	HY-P5808
CAS No.:	1042682-52-9
Molecular Formula:	C <sub>212</sub> H <sub>310</sub> N <sub>54</sub> O <sub>69</sub> S <sub>8</sub>
Molecular Weight:	4975.57
Sequence:	Gly-{Hyp}-Ser-Phe-Cys-Lys-Ala-Asp-Glu-Lys-{Hyp}-Cys-Glu-Tyr-His-Ala-Asp-Cys-Cys-Asn-Cys-Cys-Leu-Ser-Gly-Ile-Cys-Ala-{Hyp}-Ser-Thr-Asn-Trp-Ile-Leu-Pro-Gly-Cys-Ser-Thr-Ser-Ser-Phe-{d-Phe}-Lys-Ile (Disulfide bridge:Cys5-Cys19;Cys12-Cys22;Cys18-Cys27;Cys21-Cys38)
Sequence Shortening:	G-{Hyp}-SFCKADEK-{Hyp}-CEYHADCCNCLSGICA-{Hyp}-STNWILPGCSTSSF-{d-Phe}-KI (Disulfide bridge:Cys5-Cys19;Cys12-Cys22;Cys18-Cys27;Cys21-Cys38)
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

### BIOLOGICAL ACTIVITY

#### Description

Iota-conotoxin RXIA is an agonist of voltage-gated sodium channels (Na<sub>v</sub>1.2, 1.6, 1.7). Iota-conotoxin RXIA can induce repetitive action potential and seizure in motor axons of frogs after intracranial injection in mice <sup>[1]</sup>.

### REFERENCES

[1]. Fiedler B, et al. Specificity, affinity and efficacy of iota-conotoxin RXIA, an agonist of voltage-gated sodium channels Na(V)1.2, 1.6 and 1.7. *Biochem Pharmacol.* 2008 Jun 15;75(12):2334-44.

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

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