

ω-Hexatoxin-Hv1a

Cat. No.:	HY-P5142
CAS No.:	193981-10-1
Molecular Formula:	C ₁₆₂ H ₂₄₇ N ₄₉ O ₆₁ S ₆
Molecular Weight:	4049.38
Sequence:	Ser-Pro-Thr-Cys-Ile-Pro-Ser-Gly-Gln-Pro-Cys-Pro-Tyr-Asn-Glu-Asn-Cys-Cys-Ser-Gln-Ser-Cys-Thr-Phe-Lys-Glu-Asn-Glu-Asn-Gly-Asn-Thr-Val-Lys-Arg-Cys-Asp (Disulfide bridge ⌘Cys4-Cys18; Cys11-Cys22; Cys17-Cys36)
Sequence Shortening:	SPTCIPSGQPCYPYENCCSQSCTFKENENGNTVKRCD (Disulfide bridge ⌘Cys4-Cys18; Cys11-Cys22; Cys17-Cys36)
Target:	Calcium Channel
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description

ω-Hexatoxin-Hv1a is a neurotoxin that can be isolated from the venom spider (*Hadronyche versuta*). ω-Hexatoxin-Hv1a blocks voltage-gated calcium channels^{[1][2]}.

REFERENCES

[1]. Powell ME, et al. Demonstrating the potential of a novel spider venom-based biopesticide for target-specific control of the small hive beetle, a serious pest of the European honeybee. *J Pest Sci* (2004). 2020;93(1):391-402.

[2]. Yang S, et al. Effect of insecticidal fusion proteins containing spider toxins targeting sodium and calcium ion channels on pyrethroid-resistant strains of peach-potato aphid (*Myzus persicae*). *Pest Manag Sci*. 2015 Jul;71(7):951-6.

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

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