

Huwentoxin I

Cat. No.:	HY-P5179
CAS No.:	769973-37-7
Molecular Formula:	C ₁₆₁ H ₂₄₆ N ₄₈ O ₄₄ S ₆
Molecular Weight:	3750.36
Sequence:	Ala-Cys-Lys-Gly-Val-Phe-Asp-Ala-Cys-Thr-Pro-Gly-Lys-Asn-Glu-Cys-Cys-Pro-Asn-Arg-Val-Cys-Ser-Asp-Lys-His-Lys-Trp-Cys-Lys-Trp-Lys-Leu (Disulfide bridge: Cys2-Cys17; Cys9-Cys22; Cys16-Cys29)
Sequence Shortening:	ACKGVFDCTPGKNECCPNRVCSDKHKWKWKL (Disulfide bridge: Cys2-Cys17; Cys9-Cys22; Cys16-Cys29)
Target:	Calcium Channel; Sodium 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

Huwentoxin I (HWTX-I) is a peptide toxin that inhibits voltage-gated sodium channels and N-type calcium channels. Huwentoxin I inhibits sodium channels in rat hippocampus and cockroach dorsal unpaired median (DUM) neurons with IC₅₀ values of 66.1 and 4.80 nM, respectively^[1].

REFERENCES

[1]. Wang M, et al. The effects of huwentoxin-I on the voltage-gated sodium channels of rat hippocampal and cockroach dorsal unpaired median neurons. *Peptides*. 2012 Mar;34(1):19-25.

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

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