

Jingzhaotoxin-IX

Cat. No.:	HY-P5771
Molecular Formula:	C ₁₇₁ H ₂₅₁ N ₄₉ O ₄₈ S ₆
Molecular Weight:	3953.51
Sequence:	Glu-Cys-Thr-Lys-Leu-Leu-Gly-Gly-Cys-Thr-Lys-Asp-Ser-Glu-Cys-Cys-Pro-His-Leu-Gly-Cys-Arg-Lys-Lys-Trp-Pro-Tyr-His-Cys-Gly-Trp-Asp-Gly-Thr-Phe-NH ₂ (Disulfide bridge: Cys2-Cys16; Cys9-Cys21; Cys15-Cys29)
Sequence Shortening:	ECTKLLGGCTKDSECCPHLGCRKKWPYHCGWDGTF-NH ₂ (Disulfide bridge: Cys2-Cys16; Cys9-Cys21; Cys15-Cys29)
Target:	Sodium Channel
Pathway:	Membrane Transporter/Ion Channel
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description

Jingzhaotoxin-IX, a C-terminally amidated peptide composed of 35 amino acid residues, is a neurotoxin. Jingzhaotoxin-IX inhibits voltage-gated sodium channels (both tetrodotoxin-resistant and tetrodotoxin-sensitive isoforms) and Kv2.1 channel. Jingzhaotoxin-IX has no effect on delayed rectifier potassium channel Kv1.1, 1.2 and 1.3^[1].

REFERENCES

[1]. Meichun Deng, et al. Jingzhaotoxin-IX, a novel gating modifier of both sodium and potassium channels from Chinese tarantula *Chilobrachys jingzhao*. *Neuropharmacology*. 2009 Aug;57(2):77-87.

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

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