Jingzhaotoxin-II

Cat. No.:	HY-P5772
Molecular Formula:	$C_{154}H_{219}N_{39}O_{45}S_7$
Molecular Weight:	3561.08
Sequence:	Gly-Cys-Gly-Thr-Met-Trp-Ser-Pro-Cys-Ser-Thr-Glu-Lys-Pro-Cys-Cys-Asp-Asn-Phe-Ser-Cys-Gln-Pro-Ala-Ile-Lys-Trp-Cys-Ile-Trp-Ser-Pro (Disulfide bridge:Cys2-Cys16;Cys9-Cys21;Cys15-Cys28)
Sequence Shortening:	GCGTMWSPCSTEKPCCDNFSCQPAIKWCIWSP (Disulfide bridge:Cys2-Cys16;Cys9-Cys21;Cys15-Cys28)
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-II, a 32 amino acid residues including two acidic and two basic residues, is a neurotoxin. Jingzhaotoxin-II inhibits voltage-gated sodium channels (VGSC) that significantly slows rapid inactivation of TTX-resistant (TTX-R) VGSC on cardiac myocytes with the IC_{50} of 0.26 μM[1].

REFERENCES

[1]. Meichi Wang, et al. Jingzhaotoxin-II, a novel tarantula toxin preferentially targets rat cardiac sodium channel. Biochem Pharmacol. 2008 Dec 15;76(12):1716-27.

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