

## Jingzhaotoxin-V

<b>Cat. No.:</b>	HY-P5770
<b>Molecular Formula:</b>	C <sub>157</sub> H <sub>243</sub> N <sub>47</sub> O <sub>37</sub> S <sub>7</sub>
<b>Molecular Weight:</b>	3605.36
<b>Sequence:</b>	Tyr-Cys-Gln-Lys-Trp-Met-Trp-Thr-Cys-Asp-Ser-Lys-Arg-Ala-Cys-Cys-Glu-Gly-Leu-Arg-Cys-Lys-Leu-Trp-Cys-Arg-Lys-Ile-Ile-NH <sub>2</sub> (Disulfide bridge:Cys2-Cys16;Cys9-Cys21;Cys15-Cys25)
<b>Sequence Shortening:</b>	YCQKMMWTCDSKRACCEGLRCKLWCRKII-NH <sub>2</sub> (Disulfide bridge:Cys2-Cys16;Cys9-Cys21;Cys15-Cys25)
<b>Target:</b>	Sodium Channel
<b>Pathway:</b>	Membrane Transporter/Ion Channel
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.

### BIOLOGICAL ACTIVITY

#### Description

Jingzhaotoxin-V, a 29-residue polypeptide, is derived from the venom of the spider *Chilobrachys jingzhao*. Jingzhaotoxin-V inhibits tetrodotoxin-resistant and tetrodotoxin-sensitive sodium currents in rat dorsal root ganglion neurons with IC<sub>50</sub> values of 27.6 nM and 30.2 nM, respectively. Jingzhaotoxin-V also inhibits Kv4.2 potassium currents expressed in *Xenopus Laevis* oocytes (IC<sub>50</sub> of 604.2 nM)<sup>[1]</sup>.

### REFERENCES

[1]. Xiongzhi Zeng, et al. Isolation and characterization of Jingzhaotoxin-V, a novel neurotoxin from the venom of the spider *Chilobrachys jingzhao*. *Toxicon*. 2007 Mar 1;49(3):388-99.

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

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