

## Jingzhaotoxin-34

<b>Cat. No.:</b>	HY-P5773
<b>Molecular Formula:</b>	C <sub>154</sub> H <sub>219</sub> N <sub>39</sub> O <sub>45</sub> S <sub>7</sub>
<b>Molecular Weight:</b>	3561.08
<b>Sequence:</b>	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-Cys29)
<b>Sequence Shortening:</b>	ACREWLGGCSKDADCCAHLPCRKKWPYHCVWDWTV (Disulfide bridge:Cys2-Cys16;Cys9-Cys21;Cys15-Cys29)
<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-34, a 35-residue polypeptide, is a neurotoxin. Jingzhaotoxin-34 inhibits tetrodotoxin-sensitive (TTX-S) sodium currents (IC<sub>50</sub> of ~85 nM) while having no significant effects on tetrodotoxin-resistant (TTX-R) sodium currents on rat dorsal root ganglion neurons<sup>[1]</sup>.

### REFERENCES

[1]. Jinjun Chen, et al. Expression and characterization of jingzhaotoxin-34, a novel neurotoxin from the venom of the tarantula *Chilobrachys jingzhao*. *Peptides*. 2009 Jun;30(6):1042-8.

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

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