

## ω-Tbo-IT1

<b>Cat. No.:</b>	HY-P5140
<b>Molecular Formula:</b>	C <sub>171</sub> H <sub>285</sub> N <sub>61</sub> O <sub>53</sub> S <sub>9</sub>
<b>Molecular Weight:</b>	4332.05
<b>Sequence:</b>	Cys-Ala-Ser-Lys-Asn-Glu-Arg-Cys-Gly-Asn-Ala-Leu-Tyr-Gly-Thr-Lys-Gly-Pro-Gly-Cys-Cys-Asn-Gly-Lys-Cys-Ile-Cys-Arg-Thr-Val-Pro-Arg-Lys-Gly-Val-Asn-Ser-Cys-Arg-Cys-Met (Disulfide bridge: Cys1-Cys21; Cys8-Cys25; Cys20-Cys40; Cys27-Cys38)
<b>Sequence Shortening:</b>	CASKNERCGNALYGTKGPGCCNGKICRTVPRKGVNSRCRM (Disulfide bridge: Cys1-Cys21; Cys8-Cys25; Cys20-Cys40; Cys27-Cys38)
<b>Target:</b>	Calcium Channel
<b>Pathway:</b>	Membrane Transporter/Ion Channel; Neuronal Signaling
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.

### BIOLOGICAL ACTIVITY

#### Description

ω-Tbo-IT1 is a peptide toxin that can be isolated from the venom of *Tibellus oblongus*. ω-Tbo-IT1 is an inhibitor of insect calcium channel<sup>[1]</sup>.

### REFERENCES

[1]. Mikov AN, et al. ω-Tbo-IT1-New Inhibitor of Insect Calcium Channels Isolated from Spider Venom. *Sci Rep.* 2015 Nov 27;5:17232.

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

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