

## Hongotoxin-1

<b>Cat. No.:</b>	HY-P3014
<b>Molecular Formula:</b>	C <sub>181</sub> H <sub>299</sub> N <sub>53</sub> O <sub>49</sub> S <sub>7</sub>
<b>Molecular Weight:</b>	4226.13
<b>Sequence:</b>	Thr-Val-Ile-Asp-Val-Lys-Cys-Thr-Ser-Pro-Lys-Gln-Cys-Leu-Pro-Pro-Cys-Lys-Ala-Gln-Ph e-Gly-Ile-Arg-Ala-Gly-Ala-Lys-Cys-Met-Asn-Gly-Lys-Cys-Lys-Cys-Tyr-Pro-His (Disulfide bridge:Cys3-Cys17;Cys10-Cys21;Cys16-Cys32)
<b>Sequence Shortening:</b>	TVIDVKCTSPKQCLPPCKAQFGIRAGAKCMNGKCKCYPH (Disulfide bridge:Cys3-Cys17;Cys 10-Cys21;Cys16-Cys32)
<b>Target:</b>	Potassium 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

<b>Description</b>	Hongotoxin-1, isolated from venom of Centruroides limbatus, is the inhibitor of potassium channel, with IC <sub>50</sub> for? Kv1.1, Kv1.2, Kv1.3, and Kv1.6 of 31 pM, 170 pM, 86 pM, and 6000 pM, respectively <sup>[1]</sup> .			
<b>IC<sub>50</sub> &amp; Target</b>	Kv1.1 31 pM (IC <sub>50</sub> )	Kv1.2 170 pM (IC <sub>50</sub> )	Kv1.3 86 pM (IC <sub>50</sub> )	Kv1.6 6000 pM (IC <sub>50</sub> )

### REFERENCES

[1]. Koschak A, et al. Subunit composition of brain voltage-gated potassium channels determined by hongotoxin-1, a novel peptide derived from Centruroides limbatus venom. The Journal of Biological Chemistry. 273 (5): 2639-44.

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

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