

## Huwentoxin XVI

Cat. No.:	HY-P1078
CAS No.:	1600543-88-1
Molecular Formula:	C <sub>196</sub> H <sub>292</sub> N <sub>50</sub> O <sub>56</sub> S <sub>6</sub>
Molecular Weight:	4437.13
Sequence:	Cys-Ile-Gly-Glu-Gly-Val-Pro-Cys-Asp-Glu-Asn-Asp-Pro-Arg-Cys-Cys-Ser-Gly-Leu-Val-Cys-Leu-Lys-Pro-Thr-Leu-His-Gly-Ile-Trp-Tyr-Lys-Ser-Tyr-Tyr-Cys-Tyr-Lys-Lys (Disulfide bridge:Cys1-Cys16;Cys8-Cys21;Cys15-Cys36)
Sequence Shortening:	CIGEGVPCDENDPRCCSGLVCLKPTLHGIWYKSYCYKK (Disulfide bridge:Cys1-Cys16;Cys8-Cys21;Cys15-Cys36)
Target:	Calcium Channel
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

### BIOLOGICAL ACTIVITY

Description	Huwentoxin XVI, an analgesic, is a highly reversible and selective mammalian N-type calcium channel (IC <sub>50</sub> of ~60 nM) antagonist from Chinese tarantula <i>Ornithoctonus huwena</i> . Huwentoxin XVI has no effect on voltagegated T-type calcium channels, potassium channels or sodium channels <sup>[1]</sup> .
IC <sub>50</sub> & Target	IC <sub>50</sub> : ~60 nM (N-type calcium channel) <sup>[1]</sup>

### REFERENCES

[1]. Meichun Deng, et al. Huwentoxin-XVI, an analgesic, highly reversible mammalian N-type calcium channel antagonist from Chinese tarantula *Ornithoctonus huwena*. *Neuropharmacology*. 2014 Apr;79:657-67.

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

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