

## Noxiustoxin

Cat. No.:	HY-P2710
CAS No.:	85205-49-8
Molecular Formula:	C <sub>174</sub> H <sub>286</sub> N <sub>52</sub> O <sub>54</sub> S <sub>7</sub>
Molecular Weight:	4195
Sequence:	Thr-Ile-Ile-Asn-Val-Lys-Cys-Thr-Ser-Pro-Lys-Gln-Cys-Ser-Lys-Pro-Cys-Lys-Glu-Leu-Tyr-Gly-Ser-Ser-Ala-Gly-Ala-Lys-Cys-Met-Asn-Gly-Lys-Cys-Lys-Cys-Tyr-Asn-Asn-NH <sub>2</sub> (Disulfide bridge:Cys7-Cys29;Cys13-Cys34;Cys17-Cys36)
Sequence Shortening:	TIINVKCTSPKQCSKPKCKELYGSSAGAKCMNGKCKCYNN-NH <sub>2</sub> (Disulfide bridge:Cys7-Cys29;Cys13-Cys34;Cys17-Cys36)
Target:	Potassium Channel
Pathway:	Membrane Transporter/Ion Channel
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

### BIOLOGICAL ACTIVITY

#### Description

Noxiustoxin is a toxin from the venom of the Mexican scorpion *Centruroides noxius* which block voltage-dependent potassium channel (Kv1.3, IC<sub>50</sub> = 360 nM), and calcium-activated potassium channel. Noxiustoxin plays an important role in neuroinflammatory disease<sup>[1][2]</sup>.

### REFERENCES

[1]. M Dauplais, et al. Determination of the Three-Dimensional Solution Structure of Noxiustoxin: Analysis of Structural Differences with Related Short-Chain Scorpion Toxins. *Biochemistry*.1995 Dec 26;34(51):16563-73.

[2]. H H Valdivia, et al. Charybdotoxin and noxiustoxin, two homologous peptide inhibitors of the K<sup>+</sup>(Ca<sup>2+</sup>) channel. *FEBS Lett.* 1988 Jan 4;226(2):280-4.

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

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