

AmmTX3

Cat. No.:	HY-P1426
Molecular Formula:	C ₁₅₈ H ₂₆₂ N ₅₀ O ₄₈ S ₆
Molecular Weight:	3822.47
Sequence:	{Glp}-Ile-Glu-Thr-Asn-Lys-Lys-Cys-Gln-Gly-Gly-Ser-Cys-Ala-Ser-Val-Cys-Arg-Lys-Val-Ile-Gly-Val-Ala-Ala-Gly-Lys-Cys-Ile-Asn-Gly-Arg-Cys-Val-Cys-Tyr-Pro (Disulfide bonds: Cys8-Cys28, Cys13-Cys33 and Cys17-Cys35)
Sequence Shortening:	{Glp}-IETNKKCQGGSCASVCRKVIGVAAGKINGRCVCYP (Disulfide bonds: Cys8-Cys28, Cys13-Cys33 and Cys17-Cys35)
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	AmmTX3 is a peptide toxin that can be isolated from the venom of the scorpion <i>Androctonus mauretanicus</i> . AmmTX3 is specific blocker of K _v 4 channel. AmmTX3 inhibits the A-type K ⁺ current (K _i : 131 nM) ^{[1][2]} .
IC ₅₀ & Target	K _v 4 channel ^[2]

REFERENCES

- [1]. Vacher H, et al. Expanding the scorpion toxin alpha-KTX 15 family with AmmTX3 from *Androctonus mauretanicus*. *Eur J Biochem*. 2002 Dec;269(24):6037-41. <https://doi.org/10.1046/j.1469-7580.2002.01411.x>
- [2]. Maffie JK, et al. Dipeptidyl-peptidase-like-proteins confer high sensitivity to the scorpion toxin AmmTX3 to Kv4-mediated A-type K⁺ channels. *J Physiol*. 2013 May 15;591(10):2419-27. <https://doi.org/10.1111/jphysiol.25000>

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

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