

## AmmTX3 TFA

Cat. No.:	HY-P1426A
Molecular Formula:	$C_{158}H_{262}N_{50}O_{48}S_6 \cdot xC_2HF_3O_2$
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, Cys17-Cys35) (TFA salt) <small>{Glp}-IETNKKCQGGSCASVCRKVIIGVAAGKINGRCVCYP (Disulfide bonds: Cys8-Cys28, Cys13-Cys33, Cys17-Cys35) (TFA salt)</small>
Sequence Shortening:	{Glp}-IETNKKCQGGSCASVCRKVIIGVAAGKINGRCVCYP (Disulfide bonds: Cys8-Cys28, Cys13-Cys33, Cys17-Cys35) (TFA salt)
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 TFA is a peptide toxin that can be isolated from the venom of the scorpion *Androctonus mauretanicus*. AmmTX3 TFA is specific blocker of  $K_v4$  channel. AmmTX3 TFA inhibits the A-type  $K^+$  current ( $K_i$ : 131 nM)<sup>[1][2]</sup>.

### 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  $K_v4$ -mediated A-type  $K^+$  channels. J Physiol. 2013 May 15;591(10):2419-27. <https://doi.org/10.1111/jphysiol.2419>

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

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