

π-TRTX-Hm3a

Cat. No.:	HY-P5780
Molecular Formula:	C ₁₈₆ H ₂₉₀ N ₅₆ O ₄₉ S ₆
Molecular Weight:	4287.03
Sequence:	Glu-Pro-Cys-Ile-Pro-Lys-Trp-Lys-Ser-Cys-Val-Asn-Arg-His-Gly-Asp-Cys-Cys-Ala-Gly-Leu-Glu-Cys-Trp-Lys-Arg-Arg-Lys-Ser-Phe-Glu-Val-Cys-Val-Pro-Lys-Val (Disulfide bridge:Cys3-Cys18;Cys10-Cys23;Cys17-Cys33)
Sequence Shortening:	EPCIPKWKSCVNRHGDCAGLECWKRRKSFVCPKV (Disulfide bridge:Cys3-Cys18;Cys10-Cys23;Cys17-Cys33)
Target:	Sodium Channel
Pathway:	Membrane Transporter/Ion Channel
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	π-TRTX-Hm3a is a 37-amino acid peptide isolated from Togo starburst tarantula (<i>Heteroscodra maculata</i>) venom. π-TRTX-Hm3a pH-dependently inhibits acid-sensing ion channel 1a (ASIC1a) with an IC ₅₀ of 1-2 nM and potentiates ASIC1b with an EC ₅₀ of 46.5 nM ^[1] .
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REFERENCES

[1]. Sing Yan Er, et al. Discovery and molecular interaction studies of a highly stable, tarantula peptide modulator of acid-sensing ion channel 1. *Neuropharmacology*. 2017 Dec;127:185-195.

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

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