

Scorpion toxin Tf2

Cat. No.:	HY-P5152
Molecular Formula:	C ₃₀₉ H ₄₃₈ N ₈₀ O ₈₇ S ₉
Molecular Weight:	6953.86
Sequence:	Lys-Glu-Gly-Tyr-Ala-Met-Asp-His-Glu-Gly-Cys-Lys-Phe-Ser-Cys-Phe-Ile-Arg-Pro-Ser-Gly-Phe-Cys-Asp-Gly-Tyr-Cys-Lys-Thr-His-Leu-Lys-Ala-Ser-Ser-Gly-Tyr-Cys-Ala-Trp-Pro-Ala-Cys-Tyr-Cys-Tyr-Gly-Val-Pro-Ser-Asn-Ile-Lys-Val-Trp-Asp-Tyr-Ala-Thr-Asn-Lys-Cys-NH ₂ (Disulfide bridge: Cys11-Cys62, Cys15-Cys38, Cys23-Cys43, Cys27-Cys45)
Sequence Shortening:	KEGYAMDHEGCKFSCFIRPSGFCDGYCKTHLKASSGYCAWPACYCYGVPSNIKVWDYATNKC-NH ₂ (Disulfide bridge: Cys11-Cys62, Cys15-Cys38, Cys23-Cys43, Cys27-Cys45)
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	Scorpion toxin Tf2 is a β -scorpion toxin, which is firstly identified in the venom of the Brazilian scorpion <i>Tityus fasciolatus</i> . Scorpion toxin Tf2 is a Nav1.3 activator, which is a neuronal voltage-gated sodium (Nav) subtype implicated in epilepsy and nociception. Scorpion toxin Tf2 enhances hNav1.3 activation voltage and opens the channel at resting membrane potentials [1].
IC ₅₀ & Target	Nav1.3 ^[1]

REFERENCES

[1]. Camargos TS, et al. The Scorpion Toxin Tf2 from *Tityus fasciolatus* Promotes Nav1.3 Opening. *PLoS One*. 2015 Jun 17;10(6):e0128578.

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

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