

Spinoxin

Cat. No.:	HY-P5931
CAS No.:	752984-66-0
Molecular Formula:	C ₁₄₇ H ₂₃₆ N ₄₈ O ₄₆ S ₉
Molecular Weight:	3700.33
Sequence:	Ile-Arg-Cys-Ser-Gly-Ser-Arg-Asp-Cys-Tyr-Ser-Pro-Cys-Met-Lys-Gln-Thr-Gly-Cys-Pro-Asn-Ala-Lys-Cys-Ile-Asn-Lys-Ser-Cys-Lys-Cys-Tyr-Gly-Cys-NH ₂ (Disulfide bridge: Cys3-Cys24, Cys9-Cys29, Cys13-Cys31, Cys19-Cys34)
Sequence Shortening:	IRCSGSRDCYSPCMKQTGCPNAKCINKSCKCYGC-NH ₂ (Disulfide bridge: Cys3-Cys24, Cys9-Cys29, Cys13-Cys31, Cys19-Cys34)
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	Spinoxin isolated from the venom of scorpion <i>Heterometrus spinifer</i> , is a 34-residue peptide neurotoxin cross-linked by four disulfide bridges. Spinoxin is a potent inhibitor of Kv1.3 potassium channel (IC ₅₀ = 63 nM), considering to be valid molecular targets in the diagnostics and therapy of various autoimmune disorders and cancers ^[1] .
IC ₅₀ & Target	Kv1.3 63 nM (IC ₅₀)

REFERENCES

[1]. Steve Peigneur, et al. Active Sites of Spinoxin, a Potassium Channel Scorpion Toxin, Elucidated by Systematic Alanine Scanning. *Biochemistry*. 2016 May 31;55(21):2927-35.

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

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