

Hainantoxin-IV

Cat. No.:	HY-P5184
CAS No.:	651782-02-4
Molecular Formula:	C ₁₆₆ H ₂₅₇ N ₅₃ O ₅₀ S ₆
Molecular Weight:	3987.53
Sequence:	Glu-Cys-Leu-Gly-Phe-Gly-Lys-Gly-Cys-Asn-Pro-Ser-Asn-Asp-Gln-Cys-Cys-Lys-Ser-Ser-Asn-Leu-Val-Cys-Ser-Arg-Lys-His-Arg-Trp-Cys-Lys-Tyr-Glu-Ile-NH ₂ (Disulfide bridge: Cys2-Cys17; Cys9-Cys24; Cys16-Cys31)
Sequence Shortening:	ECLGFGKGCNPSNDQCCKSSNLVCSRKHRWCKYEI-NH ₂ (Disulfide bridge: Cys2-Cys17; Cys9-Cys24; Cys16-Cys31)
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

Hainantoxin-IV is a specific antagonist of Sodium Channel, targeting to tetrodotoxin-sensitive (TTX-S) voltage-gated sodium channels. His28 and Lys32 are the key residues of Hainantoxin-IV for binding with target, while Hainantoxin-IV adopts an inhibitor cystine knot motif^[1].

REFERENCES

[1]. Liu Y, et al. A positively charged surface patch is important for hainantoxin-IV binding to voltage-gated sodium channels. J Pept Sci. 2012 Oct;18(10):643-9.

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

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