

Hainantoxin-III

Cat. No.:	HY-P5180
CAS No.:	1809149-40-3
Molecular Formula:	C ₁₅₄ H ₂₂₈ N ₄₄ O ₄₅ S ₆
Molecular Weight:	3608.12
Sequence:	Gly-Cys-Lys-Gly-Phe-Gly-Asp-Ser-Cys-Thr-Pro-Gly-Lys-Asn-Glu-Cys-Cys-Pro-Asn-Tyr-Ala-Cys-Ser-Ser-Lys-His-Lys-Trp-Cys-Lys-Val-Tyr-Leu-NH ₂ (Disulfide bonds: Cys2-Cys17, Cys9-Cys22, Cys16-Cys29)
Sequence Shortening:	GCKGFGDCTPGKNECCPNYACSSKHKWCKVYL-NH ₂ (Disulfide bonds: Cys2-Cys17, Cys9-Cys22, Cys16-Cys29)
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	Jingzhaotoxin-V is a peptide that inhibits potassium currents in <i>Xenopus laevis</i> oocytes with an IC ₅₀ value of 604.2 nM. Jingzhaotoxin-V also inhibits tetrodotoxin-resistant and tetrodotoxin-sensitive sodium currents in rat dorsal root ganglion neurons with IC ₅₀ values of 27.6 and 30.2 nM, respectively ^[1] .		
IC ₅₀ & Target	Nav1.2	Nav1.3	Nav1.7

REFERENCES

[1]. Yucheng Xiao, et al. Inhibition of neuronal tetrodotoxin-sensitive Na⁺ channels by twospider toxins: hainantoxin-III and hainantoxin-IV. *Eur J Pharmacol.* 2003 Sep 5;477(1):1-7.

[2]. Yunxiao Zhang, et al. Engineering of highly potent and selective HNTX-III mutant against hNav1.7 sodium channel for treatment of pain. *J Biol Chem.* 2021 Jan-Jun;296:100326.

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

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