

Heteropodatoxin-1

Cat. No.:	HY-P5786
Molecular Formula:	C ₁₆₈ H ₂₃₈ N ₄₆ O ₅₁ S ₆
Molecular Weight:	3910.35
Sequence:	Asp-Cys-Gly-Thr-Ile-Trp-His-Tyr-Cys-Gly-Thr-Asp-Gln-Ser-Glu-Cys-Cys-Glu-Gly-Trp-Lys-Cys-Ser-Arg-Gln-Leu-Cys-Lys-Tyr-Val-Ile-Asp-Trp-NH ₂ (Disulfide bridge:Cys2-Cys17;Cys9-Cys22;Cys16-Cys27)
Sequence Shortening:	DCGTIWHYCGTDQSECCEGWKCSRQLCKYVIDW-NH ₂ (Disulfide bridge:Cys2-Cys17;Cys9-Cys22;Cys16-Cys27)
Target:	Sodium Channel; Potassium Channel
Pathway:	Membrane Transporter/Ion Channel
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description

Heteropodatoxin-1 (HpTx1), a spider peptide toxin, is a Kv4.2 current inhibitor. Heteropodatoxin-1 also inhibits Nav1.7 and activates Nav1.9 but does not affect Nav1.8^[1].

REFERENCES

[1]. Xi Zhou, et al. Spider venom-derived peptide induces hyperalgesia in Nav1.7 knockout mice by activating Nav1.9 channels. Nat Commun. 2020 May 8;11(1):2293.

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

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