

Phlotoxin-1

Cat. No.:	HY-P5160
Molecular Formula:	C ₁₈₃ H ₂₅₄ N ₄₆ O ₄₈ S ₆
Molecular Weight:	4058.64
Sequence:	Ala-Cys-Leu-Gly-Gln-Trp-Asp-Ser-Cys-Asp-Pro-Lys-Ala-Ser-Lys-Cys-Cys-Pro-Asn-Tyr-Ala-Cys-Glu-Trp-Lys-Tyr-Pro-Trp-Cys-Arg-Tyr-Lys-Leu-Phe (Disulfide bridge: Cys2-Cys17, Cys9-Cys22, Cys16-Cys29)
Sequence Shortening:	ACLGQWDSCDPKASKCCPNYACEWKYPWCYKLF (Disulfide bridge: 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	Phlotoxin-1 (PhlTx1) is a 34-amino acid and 3-disulfide bridge peptide. Phlotoxin-1 can be isolated from Phlogiellus genus spider. Phlotoxin-1 is an antinociceptive agent by inhibiting Nav1.7 channel ^{[1][2]} .
IC₅₀ & Target	Nav1.7 ^[1]

REFERENCES

- [1]. Gonçalves TC, et al. Evaluation of the Spider (Phlogiellus genus) Phlotoxin 1 and Synthetic Variants as Antinociceptive Drug Candidates. *Toxins (Basel)*. 2019 Aug 22;11(9):484.
- [2]. Nicolas S, et al. Chemical Synthesis, Proper Folding, Nav Channel Selectivity Profile and Analgesic Properties of the Spider Peptide Phlotoxin 1. *Toxins (Basel)*. 2019 Jun 21;11(6):367.

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

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