

Maurotoxin

Cat. No.:	HY-P5165
CAS No.:	188240-41-7
Molecular Formula:	C ₁₄₅ H ₂₃₂ N ₄₆ O ₄₆ S ₈
Molecular Weight:	3612.19
Sequence:	Val-Ser-Cys-Thr-Gly-Ser-Lys-Asp-Cys-Tyr-Ala-Pro-Cys-Arg-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-Cys19, Cys31 -Cys34)
Sequence Shortening:	VSCTGSKDCYAPCRKQTGCPNAKCINKSCKCYGC-NH ₂ (Disulfide bridge: Cys3-Cys24, Cys9-Cys29, Cys13-Cys19, Cys31 -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

Maurotoxin is a 34-residue and four disulfide-bridged toxin that can be isolated from the chactoid scorpion (Scorpio maurus). Maurotoxin inhibits the Shaker potassium channels (ShB) K⁺ current with an IC₅₀ of 2 nM^{[1][2]}.

REFERENCES

- [1]. Bende NS, et al. A distinct sodium channel voltage-sensor locus determines insect selectivity of the spider toxin Dc1a. Nat Commun. 2014 Jul 11;5:4350.
- [2]. Castle NA, et al. Maurotoxin: a potent inhibitor of intermediate conductance Ca²⁺-activated potassium channels. Mol Pharmacol. 2003 Feb;63(2):409-18.

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

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