

Crotamine

Cat. No.:	HY-P5159
Molecular Formula:	C ₂₁₄ H ₃₂₆ N ₆₄ O ₅₄ S ₇
Molecular Weight:	4883.73
Sequence:	Tyr-Lys-Gln-Cys-His-Lys-Lys-Gly-Gly-His-Cys-Phe-Pro-Lys-Glu-Lys-Ile-Cys-Leu-Pro-Pro-Ser-Ser-Asp-Phe-Gly-Lys-Met-Asp-Cys-Arg-Trp-Arg-Trp-Lys-Cys-Cys-Lys-Lys-Gly-Ser-Gly (Disulfide bonds: Cys4-Cys36, Cys11-Cys30, Cys18-Cys37)
Sequence Shortening:	YKQCHKKGGHCFPKEKICLPPSSDFGKMDCRWRWKCKKKGSG (Disulfide bonds: Cys4-Cys36, Cys11-Cys30, Cys18-Cys37)
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

Crotamine is a Na⁺ channel modulator. Crotamine is a 42 amino acid toxin cross-linked by three disulfide bridges. Crotamine has analgesic activity. Crotamine also interacts with lipid membranes and shows myonecrotic activity. Crotamine can be isolated from *Crotalus durissus terrificus* venom^{[1][2]}.

REFERENCES

- [1]. Nicastro G, et al. Solution structure of crotamine, a Na⁺ channel affecting toxin from *Crotalus durissus terrificus* venom. *Eur J Biochem.* 2003 May;270(9):1969-79.
- [2]. Kerkis I, et al. Biological versatility of crotamine--a cationic peptide from the venom of a South American rattlesnake. *Expert Opin Investig Drugs.* 2010 Dec;19(12):1515-25.

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

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