

Dc1a

Cat. No.:	HY-P5162
Molecular Formula:	C ₂₇₆ H ₄₁₄ N ₇₆ O ₈₄ S ₈
Molecular Weight:	6397.22
Sequence:	Ala-Lys-Asp-Gly-Asp-Val-Glu-Gly-Pro-Ala-Gly-Cys-Lys-Lys-Tyr-Asp-Val-Glu-Cys-Asp-Ser-Gly-Glu-Cys-Cys-Gln-Lys-Gln-Tyr-Leu-Trp-Tyr-Lys-Trp-Arg-Pro-Leu-Asp-Cys-Arg-Cys-Leu-Lys-Ser-Gly-Phe-Phe-Ser-Ser-Lys-Cys-Val-Cys-Arg-Asp-Val (Disulfide bonds: Cys12-Cys25, Cys19-Cys39, Cys24-Cys53, Cys41-Cys51)
Sequence Shortening:	AKDGDVEGPAGCKKYDVECDSECCQKQYLWYKWRPLDCRCLKSGFFSSKCVCRDV (Disulfide bonds: Cys12-Cys25, Cys19-Cys39, Cys24-Cys53, Cys41-Cys51)
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

Dc1a potently promotes opening of the German cockroach Na_v channel (BgNa_v1). Dc1a is a toxin can be isolated from the desert bush spider *Diguetia canities*^[1].

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.

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

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