

ω-Grammotoxin SIA

Cat. No.:	HY-P2699
CAS No.:	152617-90-8
Molecular Formula:	C ₁₇₇ H ₂₆₃ N ₅₃ O ₄₉ S ₆
Molecular Weight:	4109.7
Sequence:	Asp-Cys-Val-Arg-Phe-Trp-Gly-Lys-Cys-Ser-Gln-Thr-Ser-Asp-Cys-Cys-Pro-His-Leu-Ala-Cys-Lys-Ser-Lys-Trp-Pro-Arg-Asn-Ile-Cys-Val-Trp-Asp-Gly-Ser-Val-NH ₂ (Disulfide bridge: Cys2-Cys16;Cys9-Cys21;Cys15-Cys30)
Sequence Shortening:	DCVRFWKGKCSQTSDCCPHLACKSKWPRNICVWDGSV-NH ₂ (Disulfide bridge:Cys2-Cys16; Cys9-Cys21;Cys15-Cys30)
Target:	Calcium Channel
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description

ω-Grammotoxin SIA (GrTx) is P/Q and N-type voltage-gated Calcium channels inhibitor. ω-Grammotoxin SIA is also a protein toxin that can be obtained from spider venom. ω-Grammotoxin SIA has the potential to study neurological diseases as well as cardiovascular diseases^[1].

REFERENCES

[1]. Takeuchi K, et al. Solution structure of omega-grammotoxin SIA, a gating modifier of P/Q and N-type Ca(2+) channel. J Mol Biol. 2002 Aug 16;321(3):517-26.

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

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