BDS-I

Cat. No.:	HY-P5156
CAS No.:	207621-38-3
Molecular Formula:	$C_{210}H_{297}N_{57}O_{56}S_6$
Molecular Weight:	4708.34
Sequence:	Ala-Ala-Pro-Cys-Phe-Cys-Ser-Gly-Lys-Pro-Gly-Arg-Gly-Asp-Leu-Trp-Ile-Leu-Arg-Gly-Thr-Cys-Pro-Gly-Gly-Tyr-Gly-Tyr-Thr-Ser-Asn-Cys-Tyr-Lys-Trp-Pro-Asn-Ile-Cys-Cys-Tyr-Pro-His (Disulfide bonds：Cys4-Cys39, Cys6-Cys32, Cys22-Cys40)
Sequence Shortening:	AAPCFCSGKPGRGDLWILRGTCPGGYGYTSNCYKWPNICCYPH (Disulfide bonds：Cys4-Cys39, Cys6-Cys32, Cys22-Cys40)
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	BDS-I known as blood depressing substance, is a marine toxin which can be extracted from Anemonia sulcata. BDS-I is a specific inhibitor of Potassium Channel, targeting to Kv3.4. BDS-I inhibits Aβ1-42-induced enhancement of KV3.4 activity, caspase-3 activation, and abnormal nuclear morphology of NGF-differentiated PC-12 cells. BDS-I reverts the Aβ peptide-induced cell death[1].
IC_{50} & Target	Kv3.4[1]

REFERENCES

[1]. Ciccone R, et al. Synthesis and Pharmacological Evaluation of a Novel Peptide Based on：Anemonia sulcata：BDS-I Toxin as a New KV3.4 Inhibitor Exerting a Neuroprotective Effect Against Amyloid-： Peptide. Front Chem. 2019 Jul 9;7:479.

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