δ-Buthitoxin-Hj2a

Cat. No.:	HY-P5783
Molecular Formula:	$C_{304}H_{458}N_{90}O_{93}S_8$
Molecular Weight:	7117.96
Sequence:	Gly-Arg-Asp-Ala-Tyr-Ile-Ala-Asp-Asp-Lys-Asn-Cys-Val-Tyr-Thr-Cys-Ala-Lys-Asn-Ser-Tyr-Cys-Asn-Asn-Glu-Cys-Thr-Lys-Asn-Gly-Ala-Glu-Ser-Gly-Tyr-Cys-Gln-Trp-Leu-Gly-Lys-Tyr-Gly-Asn-Gly-Cys-Trp-Cys-Lys-Asn-Leu-Pro-Asp-Lys-Val-Pro-Ile-Arg-Ile-Pro-Gly-Pro-Cys-Arg-NH2 (Disulfide bridge:(Disulfide bridge:Cys12-Cys63;Cys16-Cys36;Cys22-Cys46;Cys26-Cys48)
Sequence Shortening:	GRDAYIADDKNCVYTCAKNSYCNNECTKNGAESGYCQWLGKYGNGCWCKNLPDKVPIRIPGPCR-NH2 (Disulfide bridge:(Disulfide bridge:Cys12-Cys63;Cys16-Cys36;Cys22-Cys46;Cys26-Cys48)
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	δ-Buthitoxin-Hj2a, a scorpion-venom peptide, is a potent NaV1.1 agonist with an EC_{50} of 32 nM. δ-Buthitoxin-Hj2a can be used for the Dravet syndrome (DS) research[1].
IC_{50} & Target	Nav1.1 32 nM (EC50)

REFERENCES

[1]. Chun Yuen Chow, et al. Venom Peptides with Dual Modulatory Activity on the Voltage-Gated Sodium Channel NaV1.1 Provide Novel Leads for Development of Antiepileptic Drugs. ACS Pharmacol Transl Sci. 2019 Nov 25;3(1):119-134.

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