

δ-Buthitoxin-Hj1a

Cat. No.:	HY-P5784
Molecular Formula:	C ₃₂₆ H ₄₈₂ N ₉₂ O ₉₆ S ₈
Molecular Weight:	7482.39
Sequence:	Glu-Glu-Val-Arg-Asp-Ala-Tyr-Ile-Ala-Gln-Pro-His-Asn-Cys-Val-Tyr-His-Cys-Phe-Arg-Asp-Ser-Tyr-Cys-Asn-Asp-Leu-Cys-Ile-Lys-His-Gly-Ala-Glu-Ser-Gly-Glu-Cys-Lys-Trp-Phe-Thr-Ser-Ser-Gly-Asn-Ala-Cys-Trp-Cys-Val-Lys-Leu-Pro-Lys-Ser-Glu-Pro-Ile-Lys-Val-Pro-Gly-Lys-Cys-His (Disulfide bridge:Cys14-Cys65;Cys18-Cys38;Cys24-Cys48;Cys28-Cys50)
Sequence Shortening:	EEVRDAYIAQPHNVCYHCFRDSYCNLDLCKHGAESGCKWFTSSGNACWCVKLPKSEPIKVPVKCH (Disulfide bridge:Cys14-Cys65;Cys18-Cys38;Cys24-Cys48;Cys28-Cys50)
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-Hj1a, a scorpion-venom peptide, is a potent Nav1.1 agonist with an EC ₅₀ of 17nM. δ-Buthitoxin-Hj1a can be used for the Dravet syndrome (DS) research ^[1] .
IC₅₀ & Target	Nav1.1 17 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.

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

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