

OD1

Cat. No.:	HY-P1443
Molecular Formula:	C ₃₀₈ H ₄₆₆ N ₉₀ O ₉₅ S ₈
Molecular Weight:	7206.06
Sequence:	Gly-Val-Arg-Asp-Ala-Tyr-Ile-Ala-Asp-Asp-Lys-Asn-Cys-Val-Tyr-Thr-Cys-Ala-Ser-Asn-Gly-Tyr-Cys-Asn-Thr-Glu-Cys-Thr-Lys-Asn-Gly-Ala-Glu-Ser-Gly-Tyr-Cys-Gln-Trp-Ile-Gly-Arg-Tyr-Gly-Asn-Ala-Cys-Trp-Cys-Ile-Lys-Leu-Pro-Asp-Glu-Val-Pro-Ile-Arg-Ile-Pro-Gly-Lys-Cys-Arg-NH ₂ (Disulfide bridge: Cys13-Cys64, Cys17-Cys37, Cys23-Cys47, Cys27-Cys49)
Sequence Shortening:	GVRDAYIADDKNCVYTCASNGYCNTTECTKNGAESGYCQWIGRYGNACWCIKLPDEVPIRIPGKCR-NH ₂ (Disulfide bridge: Cys13-Cys64, Cys17-Cys37, Cys23-Cys47, Cys27-Cys49)
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	OD1 is a scorpion α -toxin that can be isolated from the venom of the Iranian yellow scorpion (<i>Odonthobuthus doriae</i>). OD1 is a modulator of mammalian Nav1.7 (EC ₅₀ : 4.5 nM) ^{[1][2]} .
IC ₅₀ & Target	EC50: 4.5 nM (Nav1.7) ^[1]

REFERENCES

- [1]. Durek T, et al. Chemical engineering and structural and pharmacological characterization of the α -scorpion toxin OD1. *ACS Chem Biol*. 2013;8(6):1215-22.
- [2]. Salvage SC, et al. The β 3-subunit modulates the effect of venom peptides ProTx-II and OD1 on Nav 1.7 gating. *J Cell Physiol*. 2023 Jun;238(6):1354-1367.

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

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