Pe1b

Cat. No.:	HY-P5809
Molecular Formula:	$C_{175}H_{237}N_{47}O_{49}S_6$
Molecular Weight:	3975.43
Sequence:	Glu-Cys-Arg-Tyr-Trp-Leu-Gly-Gly-Cys-Ser-Lys-Thr-Gly-Asp-Cys-Cys-Glu-His-Leu-Ser-Cys-Ser-Pro-Lys-Trp-His-Trp-Cys-Val-Trp-Asp-Gly-Thr-Phe (Disulfide bridge: Cys2-Cys16, Cys9-Cys21,Cys15-Cys28)
Sequence Shortening:	ECRYWLGGCSKTGDCCEHLSCSPKWHWCVWDGTF (Disulfide bridge: Cys2-Cys16,Cys9-Cys21,Cys15-Cys28)
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	Pe1b (μ-TrTx-Pe1b) is a selective $Na_V1.7$ inhibitor with an IC_{50} of 167 nM[1].
IC_{50} & Target	IC50: 167 nM ($Na_V1.7$), 696 nM ($Na_V1.6$), 3.49 μM ($Na_V1.2$), ⊠10 μM ($Na_V1.5$)[1]

REFERENCES

[1]. Rupasinghe DB, et al. Mutational analysis of ProTx-I and the novel venom peptide Pe1b provide insight into residues responsible for selective inhibition of the analgesic drug target NaV1.7. Biochem Pharmacol. 2020 Nov;181:114080.

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