GpTx-1

Cat. No.:	HY-P1681
CAS No.:	1661050-12-9
Molecular Formula:	$C_{176}H_{271}N_{53}O_{45}S_7$
Molecular Weight:	4073.82
Sequence:	Asp-Cys-Leu-Gly-Phe-Met-Arg-Lys-Cys-Ile-Pro-Asp-Asn-Asp-Lys-Cys-Cys-Arg-Pro-Asn-Leu-Val-Cys-Ser-Arg-Thr-His-Lys-Trp-Cys-Lys-Tyr-Val-Phe-NH2 (Disulfide bridge: Cys2-Cys17;Cys9-Cys23;Cys16-Cys30)
Sequence Shortening:	DCLGFMRKCIPDNDKCCRPNLVCSRTHKWCKYVF-NH2 (Disulfide bridge: Cys2-Cys17;Cys9-Cys23;Cys16-Cys30)
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	GpTx-1 is a potent and selective $Na_V1.7$ antagonist with an IC_{50} of 10 nM[1].
IC_{50} & Target	IC50: 10 nM ($hNa_V1.7$), 0.2 μM ($hNa_V1.4$)[1]

REFERENCES

[1]. Murray JK, et al. Engineering potent and selective analogues of GpTx-1, a tarantula venom peptide antagonist of the Na(V)1.7 sodium channel. J Med Chem. 2015 Mar 12;58(5):2299-314.

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