GsAF-I

Cat. No.:	HY-P5795
Molecular Formula:	$C_{160}H_{244}N_{46}O_{42}S_7$
Molecular Weight:	3708.39
Sequence:	Tyr-Cys-Gln-Lys-Trp-Leu-Trp-Thr-Cys-Asp-Ser-Glu-Arg-Lys-Cys-Cys-Glu-Asp-Met-Val-Cys-Arg-Leu-Trp-Cys-Lys-Lys-Arg-Leu-NH2 (Disulfide bridge:Cys2-Cys16;Cys9-Cys21;Cys15-Cys25)
Sequence Shortening:	YCQKWLWTCDSERKCCEDMVCRLWCKKRL-NH2 (Disulfide bridge:Cys2-Cys16;Cys9-Cys21;Cys15-Cys25)
Target:	Sodium Channel; Potassium Channel
Pathway:	Membrane Transporter/Ion Channel
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	GsAF-I is a potent Na_V and hERG1 channels blocker with IC_{50}s of 0.36, 0.6, 1.28, 0.33, 1.2, 0.04 and 4.8 μM against $Na_V1.1$, $Na_V1.2$, $Na_V1.3$, $Na_V1.4$, $Na_V1.6$, $Na_V1.7$ and hERG1, respectively[1].
IC_{50} & Target	IC50: 0.04 μM ($Na_V1.7$), 0.33 μM ($Na_V1.4$), 0.36 μM ($Na_V1.1$), 0.6 μM ($Na_V1.2$), 1.2 μM ($Na_V1.6$), 1.28 μM ($Na_V1.3$), 4.8 μM (hERG1) [1]

REFERENCES

[1]. Redaelli E, et al. Target promiscuity and heterogeneous effects of tarantula venom peptides affecting Na+ and K+ ion channels. J Biol Chem. 2010 Feb 5;285(6):4130-4142.

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

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