KTX-Sp2

Cat. No.:	HY-P5870
Molecular Formula:	$C_{155}H_{244}N_{58}O_{49}S_7$
Molecular Weight:	3928.41
Sequence:	Ser-Pro-Leu-His-Gly-Ala-Lys-Cys-Ser-Ser-Ser-Asn-Gln-Cys-Thr-Arg-Pro-Cys-Arg-Tyr-Gly-Gly-Gly-Thr-His-Gly-Lys-Cys-Met-Asn-Gly-Arg-Cys-Arg-Cys-Tyr-Gly (Disulfide bridge: Cys8-Cys28,Cys14-Cys33,Cys18-Cys35)
Sequence Shortening:	SPLHGAKCSSSNQCTRPCRYGGGTHGKCMNGRCRCYG (Disulfide bridge: Cys8-Cys28,Cys14-Cys33,Cys18-Cys35)
Target:	Potassium Channel
Pathway:	Membrane Transporter/Ion Channel
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	KTX-Sp2 is a potassium channel toxin. KTX-Sp2 effectively blocks three types of exogenous voltage-gated potassium channels: Kv1.1, Kv1.2 and Kv1.3. Ktx-Sp2 inhibits endogenous Kv1.3 and suppresses Ca^{2+} signaling in Jurkat T cells. Ktx-Sp2 inhibits IL-2 secretion from activated Jurkat T cells[1].
IC_{50} & Target	Kv1.1, Kv1.2, Kv1.3[1]

REFERENCES

[1]. Zhang Y, et al. Immunosuppressive effects of a novel potassium channel toxin Ktx-Sp2 from Scorpiops Pocoki. Cell Biosci. 2019 Dec 16;9:99.

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