

Tamapin

Cat. No.:	HY-P5154
Molecular Formula:	C ₁₄₆ H ₂₃₈ N ₄₄ O ₄₁ S ₆
Molecular Weight:	3458.11
Sequence:	Ala-Phe-Cys-Asn-Leu-Arg-Arg-Cys-Glu-Leu-Ser-Cys-Arg-Ser-Leu-Gly-Leu-Leu-Gly-Lys-Cys-Ile-Gly-Glu-Glu-Cys-Lys-Cys-Val-Pro-Tyr-NH ₂ (Disulfide bridge: Cys3-Cys21, Cys8-Cys26, Cys12-Cys28)
Sequence Shortening:	AFCNLRRCELSCRSLGLLGKIGEECKVPY-NH ₂ (Disulfide bridge: Cys3-Cys21, Cys8-Cys26, Cys12-Cys28)
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	Tamapin is a venom peptide, targeting to small conductance Ca(2+)-activated K(+) (SK) channels. Tamapin is a selective blocker of SK2 (Potassium Channel). Tamapin inhibits SK channel-mediated currents in pyramidal neurons of the hippocampus. Tamapin can be isolated from the Indian red scorpion (Mesobuthus tamulus) ^[1] .
IC ₅₀ & Target	Ca(2+)-activated K(+) (SK) channel 2 (SK2) ^[1]

REFERENCES

[1]. Pedarzani P, et al. Tamapin, a venom peptide from the Indian red scorpion (Mesobuthus tamulus) that targets small conductance Ca²⁺-activated K⁺ channels and afterhyperpolarization currents in central neurons. J Biol Chem. 2002 Nov 29;277(48):46101-9.

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

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