

Phrixotoxin-1

Cat. No.:	HY-P2785
CAS No.:	221872-97-5
Molecular Formula:	C ₁₅₆ H ₂₄₀ N ₄₄ O ₃₇ S ₇
Molecular Weight:	3548.3
Sequence:	Tyr-Cys-Gln-Lys-Trp-Met-Trp-Thr-Cys-Asp-Ser-Ala-Arg-Lys-Cys-Cys-Glu-Gly-Leu-Val-Cys-Arg-Leu-Trp-Cys-Lys-Lys-Ile-Ile-NH ₂ (Disulfide bridge: Cys2-Cys16; Cys9-Cys21; Cys15-Cys25)
Sequence Shortening:	YCQKMMWTCDSARKCCEGLVCRLWCKKII-NH ₂ (Disulfide bridge: Cys2-Cys16; Cys9-Cys21; Cys15-Cys25)
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	Phrixotoxin 1, from the venom of the theraphosid spider Phrixotrichus auratus, is a specific peptide inhibitor of Kv4 potassium channel ^{[1][2]} .
IC ₅₀ & Target	Kv4 ^[2]

REFERENCES

- [1]. Benjamin Chagot, et al. Solution structure of Phrixotoxin 1, a specific peptide inhibitor of Kv4 potassium channels from the venom of the theraphosid spider Phrixotrichus auratus. *Protein Sci.* 2004 May;13(5):1197-208.
- [2]. Grit Schaarschmidt, et al. Characterization of Voltage-Gated Potassium Channels in Human Neural Progenitor Cells. *PLoS One.* 2009 Jul 8;4(7):e6168.
- [3]. Ryota Imai, et al. Excitability of oxytocin neurons in paraventricular nucleus is regulated by voltage-gated potassium channels Kv4.2 and Kv4.3. *Biosci Biotechnol Biochem.* 2019 Feb;83(2):202-211.

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

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