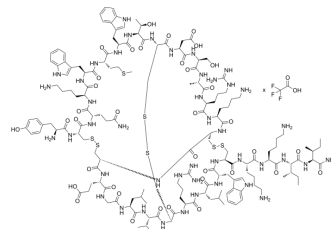


## Phrixotoxin-1 TFA

<b>Cat. No.:</b>	HY-P2785A
<b>Molecular Formula:</b>	$C_{156}H_{240}N_{44}O_{37}.xC_2HF_3O_2$
<b>Sequence:</b>	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 <sub>2</sub> (Disulfide bridge: Cys2-Cys16; Cys9-Cys21; Cys15-Cys25)
<b>Sequence Shortening:</b>	YCQKMMWTCDSARKCCEGLVCRLWCKKII-NH <sub>2</sub> (Disulfide bridge: Cys2-Cys16; Cys9-Cys21; Cys15-Cys25)
<b>Target:</b>	Potassium Channel
<b>Pathway:</b>	Membrane Transporter/Ion Channel
<b>Storage:</b>	Sealed storage, away from moisture and light Powder    -80°C    2 years -20°C    1 year
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	H <sub>2</sub> O : ≥ 100 mg/mL * "≥" means soluble, but saturation unknown.
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### BIOLOGICAL ACTIVITY

<b>Description</b>	Phrixotoxin-1 (TFA), from the venom of the theraphosid spider Phrixotrichus auratus, is a specific peptide inhibitor of Kv4 potassium channel <sup>[1][2]</sup> .
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### 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, 13, 5.
- [2]. Grit Schaarschmidt, et al. Characterization of Voltage-Gated Potassium Channels in Human Neural Progenitor Cells. *PLoS One.* 2009, 4, 7.

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

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