

Dendrotoxin K TFA

Cat. No.:	HY-P3089A
Molecular Formula:	C ₂₉₄ H ₄₆₂ N ₈₄ O ₇₅ S ₆ .XC ₂ HF ₃ OC ₂
Sequence:	Ala-Ala-Lys-Tyr-Cys-Lys-Leu-Pro-Leu-Arg-Ile-Gly-Pro-Cys-Lys-Arg-Lys-Ile-Pro-Ser-Phe-Tyr-Tyr-Lys-Trp-Lys-Ala-Lys-Gln-Cys-Leu-Pro-Phe-Asp-Tyr-Ser-Gly-Cys-Gly-Gly-Asn-Ala-Asn-Arg-Phe-Lys-Thr-Ile-Glu-Glu-Cys-Arg-Arg-Thr-Cys-Val-Gly (Disulfide bridge:Cys5-Cys55,Cys14-Cys38,Cys30-Cys51)
Sequence Shortening:	AAKYCKLPLRIGPCKRKIPSFYKWKAKQCLPFDYSGCGGNANRFKTIIECRRTC VG (Disulfide bridge:Cys5-Cys55,Cys14-Cys38,Cys30-Cys51)
Target:	Potassium Channel
Pathway:	Membrane Transporter/Ion Channel
Storage:	Sealed storage, away from moisture and light, under nitrogen 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, under nitrogen)

AAKYCKLPLRIGPCKRKIPSFYKWKAKQCLPFDYSGCGGNANRFKTIIECRRTC VG
(Disulfide bridge:Cys5-Cys55,Cys14-Cys38,Cys30-Cys51) (TFA salt)

BIOLOGICAL ACTIVITY

Description

Dendrotoxin K TFA is a Kv1.1 channel blocker. Dendrotoxin K TFA determines glutamate release in CA3 neurons in a time-dependent manner through the control of the presynaptic spike waveform^[1].

REFERENCES

[1]. Bialowas A, et al. Analog modulation of spike-evoked transmission in CA3 circuits is determined by axonal Kv1.1 channels in a time-dependent manner. Eur J Neurosci. 2015 Feb;41(3):293-304.

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

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