Pandinotoxin Kα

Cat. No.:	HY-P2949
CAS No.:	185529-64-0
Molecular Formula:	$C_{169}H_{267}N_{53}O_{48}S_7$
Molecular Weight:	4033.71
Sequence:	Thr-Ile-Ser-Cys-Thr-Asn-Pro-Lys-Gln-Cys-Tyr-Pro-His-Cys-Lys-Lys-Glu-Thr-Gly-Tyr-Pro-Asn-Ala-Lys-Cys-Met-Asn-Arg-Lys-Cys-Lys-Cys-Phe-Gly-Arg (Disulfide bridge: Cys4-Cys25,Cys10-Cys30,Cys14-Cys32)
Sequence Shortening:	TISCTNPKQCYPHCKKETGYPNAKCMNRKCKCFGR (Disulfide bridge: Cys4-Cys25,Cys10-Cys30,Cys14-Cys32)
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	Pandinotoxin Kα, isolated from the venom of Pandinus imperator, is the inhibitor of A-type potassium channel[1].		
IC_{50} & Target	Kv4.3	Kv3.4	Kv1.4

REFERENCES

[1]. T C Tenenholz, et al. Solution Structure for Pandinus Toxin K-α (PiTX-Kα), a Selective Blocker of A-Type Potassium Channels. Biochemistry. 1997 Mar 11;36(10):2763-71.

[2]. Targeting Kai-Zheng Duan, et al. A-type K(+) channels in primary sensory neurons for bone cancer pain in a rat model. Pain.2012 Mar;153(3):562-574.

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