BmP02

Cat. No.:	HY-P5157
Molecular Formula:	$C_{115}H_{182}N_{36}O_{41}S_7$
Molecular Weight:	2949.35
Sequence:	Val-Gly-Cys-Glu-Glu-Cys-Pro-Met-His-Cys-Lys-Gly-Lys-Asn-Ala-Lys-Pro-Thr-Cys-Asp-Asp-Gly-Val-Cys-Asn-Cys-Asn-Val (Disulfide bonds：Cys3-Cys19, Cys6-Cys24, Cys10-Cys26)
Sequence Shortening:	VGCEECPMHCKGKNAKPTCDDGVCNCNV (Disulfide bonds：Cys3-Cys19, Cys6-Cys24, Cys10-Cys26)
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	BmP02 is a selective Kv1.3 channel blocker and a highly-selective Kv4.2 modulator, which can be isolated from Chinese scorpion (Buthus martensi Karsch) venom. BmP02 also delays the inactivation of Kv4.2 in HEK293T cells, with an EC_{50} value of ~850 nM. BmP02 inhibits the transient outward potassium currents (Ito) in ventricular muscle cells[1][2].
IC_{50} & Target	Kv1.3, Kv4.2[1]

REFERENCES

[1]. Wu B, et al. Mapping the Interaction Anatomy of BmP02 on Kv1.3 Channel. Sci Rep. 2016 Jul 11;6:29431.

[2]. Wu B, et al. BmP02 Atypically Delays Kv4.2 Inactivation: Implication for a Unique Interaction between Scorpion Toxin and Potassium Channel. Toxins (Basel). 2016 Sep 27;8(10):280.

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