β-Pompilidotoxin

Cat. No.:	HY-P1084
CAS No.:	216064-36-7
Molecular Formula:	$C_{71}H_{124}N_{22}O_{17}$
Molecular Weight:	1557.88
Sequence:	Arg-Ile-Lys-Ile-Gly-Leu-Phe-Asp-Gln-Leu-Ser-Arg-Leu-NH2
Sequence Shortening:	RIKIGLFDQLSRL-NH2
Target:	Sodium Channel
Pathway:	Membrane Transporter/Ion Channel
Storage:	Please store the product under the recommended conditions in the COA.

BIOLOGICAL ACTIVITY

Description	β-Pompilidotoxin (β-PMTX), a wasp venom, can slow **sodium channel** inactivation and increases steady-state sodium current in cells[1].
In Vitro	β-Pompilidotoxin (β-PMTX) increases resurgent current in wild-type neurons and induced resurgent current in med neurons. β-Pompilidotoxin (10 μM) modestly but significantly increased the decay time constant (τ_{decay}) of currents evoked by a step from -90 to 0 mV from 0.52 to 0.73 msec in wild-type Purkinje cells[1].

REFERENCES

[1]. Tina M Grieco, et al. Production of resurgent current in NaV1.6-null Purkinje neurons by slowing sodium channel inactivation with beta-pompilidotoxin. J Neurosci. 2004 Jan 7;24(1):35-42.

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

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