κ-Bungarotoxin

Cat. No.:	HY-P5833
CAS No.:	124511-67-7
Molecular Formula:	$C_{303}H_{475}N_{91}O_{97}S_{10}$
Molecular Weight:	7265.22
Sequence:	Arg-Thr-Cys-Leu-Ile-Ser-Pro-Ser-Ser-Thr-Pro-Gln-Thr-Cys-Pro-Asn-Gly-Gln-Asp-Ile-Cys-Phe-Leu-Lys-Ala-Gln-Cys-Asp-Lys-Phe-Cys-Ser-Ile-Arg-Gly-Pro-Val-Ile-Glu-Gln-Gly-Cys-Val-Ala-Thr-Cys-Pro-Gln-Phe-Arg-Ser-Asn-Tyr-Arg-Ser-Leu-Leu-Cys-Cys-Thr-Thr-Asp-Asn-Cys-Asn-His (Disulfide bridge:Cys3-Cys21, Cys14-Cys42, Cys27-Cys31, Cys46-Cys58, Cys59-Cys64)
Sequence Shortening:	RTCLISPSSTPQTCPNGQDICFLKAQCDKFCSIRGPVIEQGCVATCPQFRSNYRSLLCCTTDNCNH (Disulfide bridge:Cys3-Cys21, Cys14-Cys42, Cys27-Cys31, Cys46-Cys58, Cys59-Cys64)
Target:	nAChR
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	κ-Bungarotoxin (κ-Bgt) is a potent, selective, and slowly reversible antagonist of α3β2 neuronal nicotinic acetylcholine receptors with an IC_{50} of 2.30 nM[1].
IC_{50} & Target	IC50: 2.30 nM (recombinantly expressed in P. pastoris against α3β2)[1]

REFERENCES

[1]. Grant GA, et al. Differential roles for disulfide bonds in the structural integrity and biological activity of kappa-Bungarotoxin, a neuronal nicotinic acetylcholine receptor antagonist. Biochemistry. 1998 Sep 1;37(35):12166-71.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA