Toxin Cll1 Centruroides Limpidus Limpidus Recombinant Protein

PRODUCT OVERVIEW

Product Name	Toxin Cll1, Recombinant Protein
Full Product Name	Recombinant Centruroides limpidus limpidus Toxin Cll1
Sequence	KEGYLVNKST GCKYGCFWLG KNENCDKECK AKNQGGSYGY CYSFACWCEG LPESTPTYPL PNKSCS
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	7,338 Da
Sequence Positions	1-66, Full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for P45667
Species	Centruroides limpidus limpidus (Mexican scorpion)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Toxin Cll1 recombinant protein	MBS1236291 is a recombinant protein targeting Toxin Cll1. Also known as Recombinant Centruroides limpidus limpidus Toxin Cll1. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Toxin Cll1 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Toxin Cll1. It may not necessarily be applicable to this product.

NCBI GI #	1173402
NCBI Accession #	P45667.1
UniProt Primary Accession #	P45667
NCBI Official Full Name	Toxin Cll1
UniProt Protein Name	Toxin Cll1
UniProt Synonym Protein Names	Cll toxin 1
Protein Family	Toxin

UniProt Comments for Toxin Cll1	Beta toxin that binds site-4 of sodium channels (Nav) and reduces peak current (observed on Nav1.1/SCN1A, Nav1.2/SCN2A, Nav1.3/SCN3A, Nav1.4/SCN5A, Nav1.5/SCN4A, and Nav1.6/SCN8A (IC50=44.9 nM)), shifts the voltage of activation toward more negative potentials (observed on Nav1.6, Nav1.1 (weak), Nav1.2 (weak), and Nav1.7 (weak)), and induces resurgent currents at negative voltages following brief and strong depolarizations (observed on Nav1.6, Nav1.1 (weak), Nav1.2 (weak), and Nav1.4 (weak)) (PubMed:22200496). This toxin is only active on crustaceans (PubMed:7727365).
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