Taicatoxin, Alpha-Neurotoxin-Like Component (TCX, alpha-neurotoxin-like component) Oxyuranus Scutellatus Scutellatus Recombinant Protein

PRODUCT OVERVIEW

Product Name	Taicatoxin, alpha-neurotoxin-like component (TCX, alpha-neurotoxin-like component), Recombinant Protein
Full Product Name	Recombinant Oxyuranus scutellatus scutellatus Taicatoxin, alpha-neurotoxin-like component
Product Gene Name	TCX, alpha-neurotoxin-like component recombinant protein
Product Synonym Names	Recombinant Taicatoxin, alpha-neurotoxin-like component; Taicatoxin, alpha-neurotoxin-like component; TCX, alpha-neurotoxin-like component
Sequence	RRCFITPNVR SERCPPGQEV CFTKTXDG
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 degree C. For extended storage, store at -20 or -80 degree C.
Molecular Weight	3,209 Da
Sequence Positions	1-28aa; 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 P0CJ35
Species	Oxyuranus scutellatus scutellatus (Australian taipan) (Coastal taipan)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for TCX, alpha-neurotoxin-like component recombinant protein	MBS1259932 is a recombinant protein targeting TCX, alpha-neurotoxin-like component. Also known as Recombinant Oxyuranus scutellatus scutellatus Taicatoxin, alpha-neurotoxin-like component. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of TCX, alpha-neurotoxin-like component 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 TCX, alpha-neurotoxin-like component. It may not necessarily be applicable to this product.

NCBI GI #	334350788
NCBI Accession #	P0CJ35.1
UniProt Primary Accession #	P0CJ35
NCBI Official Full Name	Taicatoxin, alpha-neurotoxin-like component
UniProt Protein Name	Taicatoxin, alpha-neurotoxin-like component

Protein Family	Taicatoxin, alpha-neurotoxin-like component
UniProt Gene Name	TCX, alpha-neurotoxin-like component
UniProt Synonym Gene Names	TCX, alpha-neurotoxin-like component
UniProt Entry Name	NXLL_OXYSC
UniProt Comments for TCX, alpha-neurotoxin-like component	Function: The heterotrimer blocks the voltage-dependent L-type calcium channels (Cav1/CACNA1) from the heart, and the small conductance calcium-activated potassium channels (KCa2/KCNN) in the chromaffin cells and in the brain. Is very toxic to mice. Ref.2 Ref.3 Ref.4 Subunit structure: Heterotrimer composed of this alpha-neurotoxin-like peptide of 8 kDa, a neurotoxic phospholipase of 16 kDa and a serine protease inhibitor of 7 kDa at an approximate stoichiometry of 1:1:4; non-covalently linked. Ref.1 Subcellular location: Secreted Ref.1. Tissue specificity: Expressed by the venom gland. Ref.1 Toxic dose: LD50 of the heterotrimer is 50-100 µg/kg to mice. Ref.1 Miscellaneous: Has a molecular mass of about 8 kDa, with 65-68 amino acid residues. Sequence similarities: Belongs to the snake three-finger toxin family. Type II alpha-neurotoxin subfamily.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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