Toxin Bmkabt (BmK BT) Mesobuthus Martensii Recombinant Protein

PRODUCT OVERVIEW

Product Name	Toxin BmKabT (BmK BT), Recombinant Protein
Full Product Name	Recombinant Mesobuthus martensii Toxin BmKabT
Product Gene Name	BmK BT recombinant protein
Sequence	KKSGYPTDHE GCKNWCVLNH SCGILCEGYG GSGYCYFWKL ACWCDDIHNW VPTWSRATNK CRA
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	9,378 Da
Sequence Positions	20-82, 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 Q9NBW2
Species	Mesobuthus martensii (Manchurian scorpion) (Buthus martensii)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for BmK BT recombinant protein	MBS1470182 is a recombinant protein targeting BmK BT. Also known as Recombinant Mesobuthus martensii Toxin BmKabT. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of BmK BT 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 BmK BT. It may not necessarily be applicable to this product.

NCBI GI #	37089892
NCBI Accession #	Q9NBW2.1
UniProt Primary Accession #	Q9NBW2
UniProt Secondary Accession #	M4HP96
NCBI Official Full Name	Toxin BmKBT
UniProt Protein Name	Toxin BmKBT
UniProt Synonym Protein Names	BmKabT; BmK abT

UniProt Gene Name	BmK BT
UniProt Synonym Gene Names	BmK abT
UniProt Comments for BmK BT	This toxin increases the peak sodium current, slows down the inactivation of sodium channels (Nav), and prolongs the action potential of dorsal root ganglion neurons, which indicates that it behaves as a classical alpha-toxin. It binds to mammal brain and insect sodium channels, but with a different manner. This peptide may bind to a distinct receptor site on mammal brain sodium channels, which is unconnected with that for BmKAS (a beta-toxin), BmKIT2 (a beta-toxin) or BmK I (an alpha toxin). In contrast, the receptor site for BmKabT on insect sodium channels might be closely related to that for the beta-insect depressant toxin BmKIT2. Possess potent toxicity in mice but induces only paralysis in cotton bollworm.
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