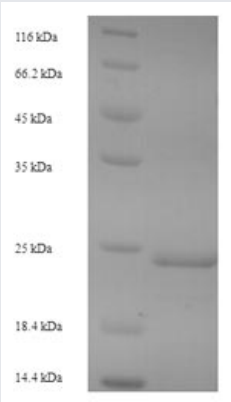
Micrurus Tener Tener Kunitz-Type Neurotoxin Mittx-Alpha Recombinant Protein

PRODUCT OVERVIEW

Product Name	Micrurus tener tener Kunitz-type neurotoxin MitTx-alpha, Recombinant Protein
Full Product Name	Recombinant Micrurus tener tener Kunitz-type neurotoxin MitTx-alpha
Sequence	QIRPAFCYED PPFFQKCGAF VDSYYFNRSR ITCVHFFYGQ CDVNQNHFTT MSECNRVCHG
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, conserve at -20 degree C or -80 degree C.
Molecular Weight	23.1 kDa
Sequence Positions	25-84aa; Full Length
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 G9I929
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Micrurus tener tener Kunitz-type neurotoxin MitTx-alpha recombinant protein	This heterodimeric toxin potently activates mouse acid-sensing ion channel ASIC1/ACCN2 expressed in Xenopus oocytes. Both alternatively spliced isoforms ASIC1a and ASIC1b are activated, with a higher potency for ASIC1a (EC(50)=9. 4 nM) vs ASIC1b (EC(50)=23 nM). The ASIC3/ACCN3 subtype is also sensitive to the heterodimer, but with a lower potency (EC(50)=830 nM). On ASIC2a/ACCN1, the toxin shows a very weak activation, but produces a rarkable potentiation (>100-fold) of protons when the extracellular pH drops below neutrality. The toxin interacts with the extracellular region of the channel, since responses are only observed in the outside-out configuration. In vivo, the heterodimer elicits robust pain-related behavior in mice by activation of ASIC1/ACCN2 channels on capsaicin-sensitive nerve fibers.
Product References and Citations for Micrurus tener tener Kunitz-type neurotoxin MitTx-alpha recombinant protein	A heteromeric Texas coral snake toxin targets acid-sensing ion channels to produce pain.Bohlen C.J., Chesler A.T., Sharif-Naeini R., Medzihradszky K.F., Zhou S., King D., Sanchez E.E., Burlingame A.L., Basbaum A.I., Julius D.Nature 479:410-414(2011)
Other Notes	Small volumes of Micrurus tener tener Kunitz-type neurotoxin MitTx-alpha 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.
Searchable Terms for Micrurus tener tener Kunitz-type neurotoxin MitTx-alpha purchase	MBS1227535 is a recombinant protein targeting Micrurus tener tener Kunitz-type neurotoxin MitTx-alpha. Also known as Recombinant Micrurus tener tener Kunitz-type neurotoxin MitTx-alpha. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.



SDS-PAGE of Micrurus tener tener Kunitz-type neurotoxin MitTx-alpha recombinant protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Micrurus tener tener Kunitz-type neurotoxin MitTx-alpha. It may not necessarily be applicable to this product.

NCBI GI #	385178641
NCBI Accession #	G9I929.1
UniProt Primary Accession #	G9I929
NCBI Official Full Name	Kunitz-type neurotoxin MitTx-alpha
UniProt Protein Name	Kunitz-type neurotoxin MitTx-alpha
UniProt Entry Name	VKTA_MICTN
UniProt Comments for Micrurus tener tener Kunitz-type neurotoxin MitTx-alpha	This heterodimeric toxin potently activates mouse acid-sensing ion channel ASIC1/ACCN2 expressed in Xenopus oocytes. Both alternatively spliced isoforms ASIC1a and ASIC1b are activated, with a higher potency for ASIC1a (EC(50)=9.4 nM) vs ASIC1b (EC(50)=23 nM). The ASIC3/ACCN3 subtype is also sensitive to the heterodimer, but with a lower potency (EC(50)=830 nM). On ASIC2a/ACCN1, the toxin shows a very weak activation, but produces a remarkable potentiation (>100-fold) of protons when the extracellular pH drops below neutrality. The toxin interacts with the extracellular region of the channel, since responses are only observed in the outside-out configuration. In vivo, the heterodimer elicits robust pain-related behavior in mice by activation of ASIC1/ACCN2 channels on capsaicin-sensitive nerve fibers.
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