U1-Agatoxin-Ta1b (ITX2) Tegenaria Agrestis Recombinant Protein

PRODUCT OVERVIEW

Product Name	U1-agatoxin-Ta1b (ITX2), Recombinant Protein
Full Product Name	Recombinant Tegenaria agrestis U1-agatoxin-Ta1b (ITX2)
Product Gene Name	ITX2 recombinant protein
Sequence	EPDEICRARM TNKEFTYKSN VCNNCGDQVA ACEAECFRND VYTACHEAQK
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	7,762 Da
Sequence Positions	18-67, 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 O46167
Species	Tegenaria agrestis (Hobo spider) (Tegenaria rhaetica)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ITX2 recombinant protein	MBS1161485 is a recombinant protein targeting ITX2. Also known as Recombinant Tegenaria agrestis U1-agatoxin-Ta1b (ITX2). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of ITX2 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 ITX2. It may not necessarily be applicable to this product.

NCBI GI #	3913963
NCBI Accession #	O46167.1
UniProt Primary Accession #	O46167
NCBI Official Full Name	U1-agatoxin-Ta1b
UniProt Protein Name	U1-agatoxin-Ta1b
UniProt Synonym Protein Names	Insecticidal toxin 2
UniProt Gene Name	TaITX-2
UniProt Synonym Gene Names	TaITX-2

UniProt Comments for ITX2	Toxin that paralyzes insects. May have a direct effect on the insect central nervous system.MiscellaneousArose via modification of ancestral neuropeptide hormones (ion transport peptide/crustacean hyperglycemic hormones (ITP/CHH)).
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