Omega-Hexatoxin-Ar1f (OMEGA-HXTX-AR1F) Atrax Robustus Recombinant Protein

PRODUCT OVERVIEW

Product Name	Omega-hexatoxin-Ar1f (Omega-HXTX-Ar1f), Recombinant Protein
Full Product Name	Recombinant Atrax robustus Omega-hexatoxin-Ar1f
Product Gene Name	Omega-HXTX-Ar1f recombinant protein
Product Synonym Names	Recombinant Omega-hexatoxin-Ar1f; Omega-hexatoxin-Ar1f; Omega-HXTX-Ar1f; Omega-atracotoxin-Ar1f; Omega-ACTX-Ar1f
Sequence	SPTCIPSGQ PCPYNENCCS QSCTFKENET GNTVKRCD
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	8,328 Da
Sequence Positions	42-78aa; Cytoplasmic domain
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 A5A3H5
Species	Atrax robustus (Sydney funnel-web spider)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Omega-HXTX-Ar1f recombinant protein	MBS1236982 is a recombinant protein targeting Omega-HXTX-Ar1f. Also known as Recombinant Atrax robustus Omega-hexatoxin-Ar1f. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Omega-HXTX-Ar1f 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 Omega-HXTX-Ar1f. It may not necessarily be applicable to this product.

UniProt Primary Accession #	A5A3H5
UniProt Protein Name	Omega-hexatoxin-Ar1f
UniProt Synonym Protein Names	Omega-atracotoxin-Ar1f
Protein Family	Omega-hexatoxin
UniProt Gene Name	Omega-HXTX-Ar1f
UniProt Synonym Gene Names	Omega-HXTX-Ar1f

UniProt Entry Name	TOT1F_ATRRO
UniProt Comments for Omega-HXTX-Ar1f	Function: Insecticidal toxin that reversibly and voltage-independently blocks both mid-low- (M-LVA) and high-voltage-activated (HVA) calcium channels (Cav) in cockroach DUM neurons. Also causes a modest block of insect sodium channel currents (Nav). Induces potent excitatory symptoms, followed by flaccid paralysis leading to death in house crickets By similarity. Subcellular location: Secreted By similarity. Tissue specificity: Expressed by the venom gland. Domain: The presence of a 'disulfide through disulfide knot' structurally defines this protein as a knottin By similarity. Miscellaneous: This toxin comes from a male specimen. It is observed that propeptide sequences coming from male specimen are identical but have only limited homology with the female paralogs, but the reason is unknown. Sequence similarities: Belongs to the omega-atracotoxin type 1 family.
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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