# Kappa-Sparatoxin-Hv1a (KAPPA-SPRTX-HV1A) Heteropoda Venatoria Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Kappa-sparatoxin-Hv1a (Kappa-SPRTX-Hv1a), Recombinant Protein |
| **Full Product Name** | Recombinant Heteropoda venatoria Kappa-sparatoxin-Hv1a |
| **Product Gene Name** | Kappa-SPRTX-Hv1a recombinant protein |
| **Product Synonym Names** | Recombinant Kappa-sparatoxin-Hv1a; Kappa-sparatoxin-Hv1a; Kappa-SPRTX-Hv1a; Heteropodatoxin-1; HpTX1 Toxin AU3/KJ5 |
| **Sequence** | DCGTIWHYCG TDQSECCEGW KCSRQLCKYV IDW |
| **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** | 3,917 Da |
| **Sequence Positions** | 1-33aa; 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 P58425 |
| **Species** | Heteropoda venatoria (Brown huntsman spider) (Aranea venatoria) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for Kappa-SPRTX-Hv1a recombinant protein** | MBS1255670 is a recombinant protein targeting Kappa-SPRTX-Hv1a. Also known as Recombinant Heteropoda venatoria Kappa-sparatoxin-Hv1a. Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of Kappa-SPRTX-Hv1a 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 Kappa-SPRTX-Hv1a. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 17433177 |
| **NCBI Accession #** | P58425.1 |
| **UniProt Primary Accession #** | P58425 |
| **NCBI Official Full Name** | Kappa-sparatoxin-Hv1a |
| **UniProt Protein Name** | Kappa-sparatoxin-Hv1a |
| **UniProt Synonym Protein Names** | Heteropodatoxin-1; HpTX1; Toxin AU3/KJ5 |

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|---|---|
| **Protein Family** | Kappa-sparatoxin |
| **UniProt Gene Name** | Kappa-SPRTX-Hv1a |
| **UniProt Synonym Gene Names** | HpTX1 |
| **UniProt Entry Name** | TXHP1_HETVE |
| **UniProt Comments for Kappa-SPRTX-Hv1a** | Function: Blocks transient outward voltage-gated potassium channels in rat ventricular myocytes (thus prolonging action-potential duration) and rat Kv4.2/KCNA4 channels expressed in Xenopus oocytes. Is also a weak blocker of calcium channels in rat cerebellar granule cells. Ref.1 Ref.2<br><br>Subcellular location: Secreted.<br><br>Tissue specificity: Expressed by the venom gland.<br><br>Domain: The presence of a 'disulfide through disulfide knot' structurally defines this protein as a knottin<br><br>By similarity.<br><br>Sequence similarities: Belongs to the huwentoxin-1 family.<br><br>Mass spectrometry: Molecular mass is 3910.57 Da from positions 1 - 33. Determined by ESI. Ref.1Molecular mass is 3909.94 Da from positions 1 - 33. Determined by ESI. Ref.2 |
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