Recombinant KVS4 protein (His tag)

Catalog Number	533018
Species	Caenorhabditis elegans
Expression System	E. coli
Accession	Q9XXD1
Gene ID	190011
Molecular Weight	Predictes a molecular mass of 19.16 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 21 kDa band.

Product Information

Sequence Region	81-231
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>85%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 81-231 aa (Q9XXD1) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Recombinant Probable Voltage-Gated Potassium Channel Subunit kvs-4 Fragment (residues 81-231) from Caenorhabditis elegans, a 151-amino acid soluble protein unit ideal for structural and biochemical studies of potassium channel function. The full-length Probable Voltage-Gated Potassium Channel Subunit kvs-4, encoded by the kvs-4 gene in Caenorhabditis elegans, functions as a voltage-gated potassium channel mediating transmembrane potassium transport in excitable membranes. It localizes to the cell membrane as a multi-pass membrane protein and is present in perikaryon, axons, and dendrites, with dendritic localization requiring association with unc-101. This protein plays critical roles in neuronal excitability and signaling pathways.