Recombinant MEC6 protein (His tag)

Catalog Number	532530
Species	Caenorhabditis elegans
Expression System	E. coli
Accession	O01811
Gene ID	172389
Molecular Weight	Predictes a molecular mass of 40.24 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 40 kDa band.

Product Information

Sequence Region	35-377
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, 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 35-377 aa (O01811) 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 Mechanosensory abnormality protein 6 (mec-6) fragment (residues 35-377) from Caenorhabditis elegans, engineered for structural and biochemical studies. This 343-amino acid fragment represents a stable, soluble unit of the protein, ideal for investigating mechanosensory transduction mechanisms and ion channel regulation. Mechanosensory abnormality protein 6 (mec-6) is a critical subunit of the amiloride-sensitive cation channel complex in Caenorhabditis elegans, essential for mechanosensory transduction and touch sensitivity. The full-length protein localizes to the cell membrane and axons, where it interacts with degenerin channel proteins to stabilize the channel structure and facilitate permeability to sodium, potassium, lithium, and N-methylglucamine. Its role in mechanosensory pathways underscores its importance in understanding neuronal signaling and sensory biology.