Recombinant MEC2 protein (His tag)

Catalog Number	532222
Species	Caenorhabditis elegans
Expression System	E. coli
Accession	Q27433
Gene ID	180826
Molecular Weight	Predictes a molecular mass of 26.21 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 26 kDa band.

Product Information

Sequence Region	136-358
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 136-358 aa (Q27433) 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 protein 2 (mec-2) fragment (residues 136-358) from Caenorhabditis elegans, offering a stable and soluble unit ideal for structural studies and biochemical analysis of mechanosensory transduction mechanisms. Mechanosensory protein 2 is a subunit of an amiloride-sensitive cation channel complex, known as the degenerin channel, which is permeable to sodium, potassium, lithium, and N-methylglucamine. It is essential for mechanosensory transduction, specifically touch sensitivity, by positively regulating the activity of the putative mechanosensory transduction channel. The protein may function to link the mechanosensory channel with the microtubule cytoskeleton in touch receptor neurons and is required for the proper function of a set of six such neurons. It is localized to the membrane as a single-pass membrane protein, underscoring its role in cellular signaling and sensory perception.