Recombinant UNC58 protein (His tag)

Catalog Number	531097
Species	Caenorhabditis elegans
Expression System	E. coli
Accession	Q22271
Gene ID	181224
Molecular Weight	Predictes a molecular mass of 11.67 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 12 kDa band.

Product Information

Sequence Region	205-288
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, 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 205-288 aa (Q22271) 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 Uncoordinated protein 58 (unc-58) fragment (residues 205-288) from Caenorhabditis elegans, designed for structural and biochemical studies. This 84-amino acid fragment represents a stable, soluble unit ideal for investigating potassium transport mechanisms in muscle mobility. The full-length Uncoordinated protein 58 (UniProt ID: Q22271) is a multi-pass membrane protein localized to cellular membranes in Caenorhabditis elegans. It plays a critical role in mobility, potentially through facilitating potassium transport in muscles, as supported by experimental evidence. This fragment (205-288) was computationally selected to provide a stable, soluble region for detailed analysis of the protein's functional domains.