Recombinant DIM protein (His tag)

Catalog Number	535050
Synonyms	2D-page protein spot 8
Species	Caenorhabditis elegans
Expression System	E. coli
Accession	Q18066
Gene ID	181062
Molecular Weight	Predictes a molecular mass of 36.97 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 39 kDa band.

Product Information

Sequence Region	319-640
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, 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 319-640 aa (Q18066) 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 Disorganized muscle protein 1 (dim-1) fragment (amino acids 319-640) from Caenorhabditis elegans, encompassing three Ig-like C2-type domains. This high-purity protein is ideal for investigating the structural and functional roles of these domains in myofilament lattice stabilization and muscle cell membrane attachment. Disorganized muscle protein 1 (dim-1), encoded by the gene dim-1 in Caenorhabditis elegans, plays a critical role in stabilizing the attachment of the myofilament lattice to the muscle cell membrane. Research indicates that isoform b is sufficient for wild-type function, highlighting its importance in maintaining muscle integrity. The protein is localized in the cytoplasm, specifically at the basal membrane region of bodywall muscle cells, where it facilitates proper muscle structure and function. This recombinant fragment provides a targeted tool for studying the specific contributions of its Ig-like domains to these essential biological processes.