Recombinant LDP1 protein (His tag)

Catalog Number	536601
Species	Caenorhabditis elegans
Expression System	E. coli
Accession	Q9GZE9
Gene ID	178692
Molecular Weight	Predictes a molecular mass of 32.02 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 32 kDa band.

Product Information

Sequence Region	1-277
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 1-277 aa (Q9GZE9) 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 Lipid droplet localized protein (LDP-1) fragment (amino acids 1-277) from Caenorhabditis elegans, designed for structural and biochemical studies. This fragment represents a stable, soluble unit ideal for investigating lipid droplet-associated membrane protein function. The full-length Lipid droplet localized protein (LDP-1) in Caenorhabditis elegans is a single-pass membrane protein localized to membranes and lipid droplets. Its presence on lipid droplets suggests a role in lipid storage, metabolism, or droplet dynamics, though specific functional details are not provided. The subcellular localization implies involvement in cellular lipid homeostasis or energy regulation.