Recombinant LET4 protein (His tag)

Catalog Number	532841
Synonyms	Lethal protein 4
Species	Caenorhabditis elegans
Expression System	E. coli
Accession	Q93373
Gene ID	181554
Molecular Weight	Predictes a molecular mass of 47.22 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 47 kDa band.

Product Information

Sequence Region	21-433
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, 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 21-433 aa (Q93373) 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 Leucine-rich repeat-containing protein let-4 (Lethal protein 4) fragment (residues 21-433) from Caenorhabditis elegans, designed for studying apical extracellular matrix organization and epithelial junction maintenance. This 413-amino acid fragment offers a stable, soluble unit ideal for structural and biochemical applications. Leucine-rich repeat-containing protein let-4 is essential for apical extracellular matrix organization and the maintenance of epithelial junctions, as demonstrated in research (PubMed:22278925). It localizes to the apical cell membrane as a single-pass type I membrane protein and is uniformly distributed at the cell membrane in excretory canal cells during embryonic development. This protein plays a critical role in cellular structure and integrity, with implications for understanding extracellular matrix dynamics and epithelial function in model organisms.