Recombinant BBLN protein (His tag)

Catalog Number	534151
Species	Caenorhabditis elegans
Expression System	E. coli
Accession	Q18012
Gene ID	180605
Molecular Weight	Predictes a molecular mass of 16.63 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 20 kDa band.

Product Information

Sequence Region	1-125
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 1-125 aa (Q18012) 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	Introducing the recombinant Bublin coiled-coil protein fragment (residues 1-125), a stable and soluble unit derived from the Caenorhabditis elegans bbln-1 gene. This fragment is ideal for structural and biochemical studies, enabling researchers to explore the protein's role in intestinal lumen morphology regulation. The full-length Bublin coiled-coil protein is a dynamic component of the endotube in intestinal cells, where it interacts with intermediate filaments to regulate intestinal lumen morphology. It localizes subapically and at cell junctions within the cytoplasm and cytoskeleton, specifically associating with the intermediate filament network in an IF-dependent manner. This localization underscores its critical function in maintaining cellular structure and integrity in the intestine.