Recombinant DPY13 protein (His tag)

Catalog Number	533654
Synonyms	Protein dumpy-13
Species	Caenorhabditis elegans
Expression System	E. coli
Accession	P17657
Gene ID	177187
Molecular Weight	Predictes a molecular mass of 9.67 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 10 kDa band.

Product Information

Sequence Region	1-70
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 1-70 aa (P17657) 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 Cuticle Collagen DPY-13 Fragment (1-70) is a high-quality protein derived from Caenorhabditis elegans, designed for structural and biochemical studies. This 70-amino acid fragment represents a stable, soluble unit of the full-length protein, ideal for investigating collagen-like protein function and nematode cuticle biology. The full-length Cuticle Collagen DPY-13 (Protein Dumpy-13) is a key component of the nematode cuticle, which serves as both an exoskeleton and a protective barrier against environmental factors. As part of the collagen-like protein family, DPY-13 contributes to maintaining proper body shape in Caenorhabditis elegans, with mutations in the dpy-13 gene leading to observable morphological defects. This protein plays a crucial role in cuticle structure and function, making it valuable for research in developmental biology and extracellular matrix studies.