Recombinant PHM2 protein (His tag)

Catalog Number	534088
Species	Caenorhabditis elegans
Expression System	E. coli
Accession	O62203
Gene ID	185193
Molecular Weight	Predictes a molecular mass of 13.14 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 13 kDa band.

Product Information

Sequence Region	391-494
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, 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 391-494 aa (O62203) 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 Pharyngeal muscle protein 2 (phm-2) Fragment (391-494) from Caenorhabditis elegans. This high-purity fragment encompasses the complete RRM domain (396-478), providing an ideal tool for studying domain-specific functions in pharyngeal muscle development, pathogen defense, and lifespan regulation. Pharyngeal muscle protein 2 (phm-2) is a multifunctional protein essential for pharyngeal muscle development and grinder function during feeding in C. elegans. Research demonstrates its critical role in defending against intestinal accumulation of pathogenic bacteria and influencing organismal lifespan determination. The full-length protein's isoform a localizes to the nucleus, suggesting regulatory functions in these biological processes. This recombinant fragment enables targeted investigation of the RRM domain's contribution to these diverse physiological roles.