Recombinant YNE5 protein (His tag)

Catalog Number	536669
Species	Caenorhabditis elegans
Expression System	E. coli
Accession	P30644
Gene ID	187699
Molecular Weight	Predictes a molecular mass of 18.55 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 21 kDa band.

Product Information

Sequence Region	1-148
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>85%, 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 1-148 aa (P30644) 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 Uncharacterized calcium-binding protein R08D7.5 fragment (amino acids 1-148) from Caenorhabditis elegans, specifically designed to encompass the complete EF-hand 1 and EF-hand 2 domains. This purified fragment serves as an essential tool for investigating the calcium-binding properties and functional mechanisms of these conserved domains in research applications. The full-length Uncharacterized calcium-binding protein R08D7.5 from Caenorhabditis elegans contains multiple EF-hand domains, which are characteristic calcium-binding motifs found in various calcium sensor and signal transduction proteins. While the specific biological function and subcellular localization of this protein remain to be fully characterized, the presence of EF-hand domains suggests potential roles in calcium-mediated signaling pathways, cellular regulation, or stress response mechanisms in C. elegans. The conserved nature of EF-hand domains across species makes this protein fragment valuable for comparative studies of calcium-binding protein function and evolution.