Recombinant ANI2 protein (His tag)

Catalog Number	532142
Species	Caenorhabditis elegans
Expression System	E. coli
Accession	Q09994
Gene ID	174055
Molecular Weight	Predictes a molecular mass of 45.29 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 45 kDa band.

Product Information

Sequence Region	631-1009
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, 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 631-1009 aa (Q09994) 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 Anillin-like protein 2 (ani-2) fragment from Caenorhabditis elegans, encompassing residues 631-1009. This 379-amino acid construct includes the complete PH domain (892-1005), providing a specialized tool for investigating domain-specific functions in rachis structure maintenance and oogenesis. Anillin-like protein 2 (UniProt ID: Q09994) is essential for maintaining the structural integrity of the rachis—the central cytoplasmic core within the syncytial adult gonad of C. elegans. Disruption of this protein leads to premature oocyte dissociation, severely impairing oogenesis. The provided fragment enables focused study of the PH domain's role in these critical biological processes.