Recombinant U375E protein (His tag)

Catalog Number	536660
Species	Caenorhabditis elegans
Expression System	E. coli
Accession	O45941
Gene ID	178334
Molecular Weight	Predictes a molecular mass of 12.46 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 12 kDa band.

Product Information

Sequence Region	21-117
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 21-117 aa (O45941) 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 fragment of the UPF0375 protein Y45F10C.2 from Caenorhabditis elegans, encompassing residues 21-117. This fragment is engineered to provide a stable and soluble unit, ideal for structural studies and functional assays investigating its role in regulating egg-laying behavior. The full-length UPF0375 protein Y45F10C.2 (UniProt ID: O45941) functions as a negative regulator of the egg-laying rate in Caenorhabditis elegans by promoting the retention of fertilized eggs, as supported by experimental evidence (PubMed:21573134). It is localized to the secretory pathway, indicating its potential role in extracellular or intercellular signaling processes. This recombinant fragment represents a key functional domain, selected for its stability and solubility to facilitate detailed mechanistic and structural analyses.