Recombinant TBCEL protein (His tag)

Catalog Number	534949
Species	Caenorhabditis elegans
Expression System	E. coli
Accession	H2KYZ5
Gene ID	180700
Molecular Weight	Predictes a molecular mass of 51.19 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 54 kDa band.

Product Information

Sequence Region	1-432
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, 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 1-432 aa (H2KYZ5) 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 Tubulin-specific chaperone cofactor E-like protein (coel-1) fragment from Caenorhabditis elegans, encompassing residues 1-432. This stable, soluble fragment is ideal for investigating tubulin regulation and microtubule-dependent neuronal processes in structural and biochemical studies. The full-length Tubulin-specific chaperone cofactor E-like protein, encoded by the coel-1 gene in Caenorhabditis elegans, functions as a key regulator of tubulin stability and is essential for microtubule-dependent neuronal activities. Research indicates its involvement in the tubulin acetylation/deacetylation pathway, influencing cytoskeletal dynamics and cellular function. Located in the cytoplasm and associated with the cytoskeleton, this protein plays a critical role in maintaining microtubule integrity and supporting neuronal processes, as evidenced by studies referenced in PubMed.