Recombinant EMB1 protein (His tag)

Catalog Number	534555
Synonyms	Abnormal embryogenesis protein 1; Anaphase-promoting complex subunit 16 homolog
Species	Caenorhabditis elegans
Expression System	E. coli
Accession	Q09410
Gene ID	187262
Molecular Weight	Predictes a molecular mass of 10.96 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 11 kDa band.

Product Information

Sequence Region	1-81
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 1-81 aa (Q09410) 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 Anaphase-promoting complex subunit emb-1 (Abnormal embryogenesis protein 1) from Caenorhabditis elegans, encompassing residues 1-81. This fragment is a stable, soluble unit ideal for structural and biochemical studies of the anaphase-promoting complex/cyclosome (APC/C) and its role in cell cycle regulation. Anaphase-promoting complex subunit emb-1 is a probable component of the APC/C, a cell cycle-regulated E3 ubiquitin ligase critical for controlling progression through mitosis and the G1 phase. The APC/C mediates ubiquitination and degradation of target proteins, ensuring proper cell division. In C. elegans, emb-1 plays a developmental role in early embryogenesis, the metaphase-to-anaphase transition in meiosis and mitosis, germline proliferation, and formation of male tails and hermaphrodite vulvas, highlighting its importance in both cell cycle and developmental processes.