Recombinant ANC2 protein (His tag)

Catalog Number	534522
Synonyms	APC2; Cyclosome subunit 2
Species	Caenorhabditis elegans
Expression System	E. coli
Accession	P34514
Gene ID	176139
Molecular Weight	Predictes a molecular mass of 41.93 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 46 kDa band.

Product Information

Sequence Region	380-731
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 380-731 aa (P34514) 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 APC2 (380-731) is a high-quality protein fragment derived from Caenorhabditis elegans Anaphase-promoting complex subunit 2 (APC2), a key regulator of cell cycle progression. This 352-amino acid fragment has been computationally optimized for stability and solubility, making it an ideal reagent for structural studies and biochemical assays investigating ubiquitin ligase mechanisms. The full-length Anaphase-promoting complex subunit 2 (APC2) functions as a probable component of the anaphase promoting complex/cyclosome (APC/C), a cell cycle-regulated ubiquitin ligase that controls progression through mitosis and the G1 phase. This complex mediates ubiquitination and subsequent degradation of target proteins, playing critical developmental roles in early embryogenesis and facilitating the metaphase to anaphase transition during both meiosis and mitosis. The APC/C complex is essential for proper cell cycle regulation and has been specifically studied in C. elegans embryogenesis (PubMed:11861581).