Recombinant CFA90 protein (His tag)

Catalog Number	549689
Species	Human
Expression System	E. coli
Accession	A4QMS7
Molecular Weight	Predictes a molecular mass of 18.64 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 20 kDa band.

Product Information

Sequence Region	1-147
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, 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 1-147 aa (A4QMS7) 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 CFAP90 (1-147) is a high-quality protein fragment derived from human Cilia- and flagella-associated protein 90, designed for structural and biochemical studies. This stable, soluble unit supports research into microtubule inner protein (MIP) functions essential for motile cilia beating. Cilia- and flagella-associated protein 90 (CFAP90) is a microtubule inner protein (MIP) integral to dynein-decorated doublet microtubules (DMTs) in the cilia axoneme, where it is required for the proper beating of motile cilia. It localizes to the cytoplasm, cytoskeleton, and specifically to the axoneme of both cilia and flagella, highlighting its role in cellular motility and structural organization. This recombinant fragment (residues 1-147) was selected computationally to represent a stable and soluble region, facilitating investigations into CFAP90's molecular mechanisms and interactions.