Recombinant CF210 protein (His tag)

Catalog Number	549749
Synonyms	Coiled-coil domain-containing protein 173
Species	Human
Expression System	E. coli
Accession	Q0VFZ6
Molecular Weight	Predictes a molecular mass of 36.65 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 45 kDa band.

Product Information

Sequence Region	48-330
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 48-330 aa (Q0VFZ6) 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	This product is a recombinant fragment of the human Cilia- and Flagella-Associated Protein 210 (CFAP210), spanning residues 48-330. It represents a stable and soluble unit ideal for investigating the protein's role in ciliary and flagellar axoneme structure and motility, making it a valuable tool for structural and biochemical studies. CFAP210, also known as Coiled-coil domain-containing protein 173, functions as a microtubule inner protein (MIP) within the dynein-decorated doublet microtubules (DMTs) of cilia and flagella axonemes. It is essential for the proper beating of motile cilia, which is critical for processes such as cellular motility and fluid movement. The protein is localized to the cytoplasm, specifically associated with the cytoskeleton in both cilium and flagellum axonemes, underscoring its importance in microtubule organization and ciliary function. This fragment was selected computationally to ensure stability and solubility, facilitating research into its mechanistic contributions.