Recombinant CFA20 protein (His tag)

Catalog Number	546346
Synonyms	Basal body up-regulated protein 22; Transcription factor IIB
Species	Human
Expression System	E. coli
Accession	Q9Y6A4
Molecular Weight	Predictes a molecular mass of 24.43 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 24 kDa band.

Product Information

Sequence Region	1-193
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, 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 1-193 aa (Q9Y6A4) 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 Human CFAP20 (1-193) is a high-purity protein fragment derived from Cilia- and Flagella-Associated Protein 20, designed for structural and biochemical studies. This fragment represents a stable, soluble unit ideal for investigating CFAP20's role in axonemal organization and ciliary motility. CFAP20 is a cilium- and flagellum-specific protein essential for the structural organization and motility of axonemes in motile cilia. It functions as a microtubule inner protein (MIP) within dynein-decorated doublet microtubules (DMTs), contributing to ciliary beating and regulating cilia size and morphology. CFAP20 is also required for axonemal microtubule polyglutamylation, a key post-translational modification. The protein localizes to the nucleus, centrosome, centriole, cilium basal body, and axoneme in both cilia and flagella, underscoring its critical role in cytoskeletal dynamics and cellular motility.