Recombinant CFA43 protein (His tag)

Catalog Number	545472
Synonyms	WD repeat-containing protein 96
Species	Human
Expression System	E. coli
Accession	Q8NDM7
Molecular Weight	Predictes a molecular mass of 22.17 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 25 kDa band.

Product Information

Sequence Region	1348-1519
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, 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 1348-1519 aa (Q8NDM7) 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 CFAP43 (Cilia- and Flagella-Associated Protein 43) Fragment (1348-1519) is a 172-amino acid protein fragment derived from human CFAP43, optimized for stability and solubility. This fragment supports structural and biochemical studies of ciliary and flagellar function, offering a reliable tool for investigating axoneme organization and motility mechanisms. CFAP43, also known as WD Repeat-Containing Protein 96, is a flagellar protein essential for sperm flagellum axoneme organization and function, and it regulates the beating frequency of motile cilia in the respiratory tract epithelium. It localizes to the cilium and flagellum, specifically within the axoneme structure, highlighting its critical role in cellular motility and ciliary dynamics. This recombinant fragment represents a stable, soluble unit ideal for exploring CFAP43's molecular interactions and contributions to ciliary and flagellar biology.