# Recombinant CFA70 protein (His tag)

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| **Catalog Number** | 547434 |
| **Synonyms** | Tetratricopeptide repeat protein 18; TPR repeat protein 18 |
| **Species** | Human |
| **Expression System** | E. coli |
| **Accession** | Q5T0N1 |
| **Molecular Weight** | Predictes a molecular mass of 43.83 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 44 kDa band. |

## Product Information

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| **Sequence Region** | 1-383 |
| **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 1-383 aa (Q5T0N1) were fused with 6His tag. |

## Storage & Handling

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| **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.<br>Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise. |

## Description

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| **Description** | Recombinant Human CFAP70 Protein (Fragment 1-383) is a high-quality, stable protein fragment derived from Cilia- and flagella-associated protein 70, designed for structural and biochemical studies. This fragment supports research into ciliary motility and length regulation, offering a soluble and reliable tool for scientific investigations.<br>Cilia- and flagella-associated protein 70 (CFAP70), also known as Tetratricopeptide repeat protein 18, is an axoneme-binding protein that plays a critical role in regulating ciliary motility and cilium length. It localizes to the cilium, flagellum, basal body, and axoneme, with a pronounced presence at the flagellum base, highlighting its importance in cellular projections and motility. This recombinant fragment (amino acids 1-383) was selected for its stability and solubility, enabling detailed analysis of CFAP70's functional domains without the full-length complexity. |