# Recombinant CFA61 protein (His tag)

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| **Catalog Number** | 545496 |
| **Species** | Human |
| **Expression System** | E. coli |
| **Accession** | Q8NHU2 |
| **Molecular Weight** | Predictes a molecular mass of 33.41 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 35 kDa band. |

## Product Information

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| **Sequence Region** | 1-276 |
| **Form** | Lyophilized powder |
| **Formulation** | Lyophilized from sterile PBS, pH 7.4 |
| **Purity** | >85%, 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 1-276 aa (Q8NHU2) 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 Cilia- and Flagella-Associated Protein 61 (CFAP61) fragment (amino acids 1-276) is a high-quality protein product designed for structural and biochemical research. This fragment, computationally optimized for stability and solubility, enables detailed investigation into CFAP61's essential role in sperm flagellum assembly and axoneme organization.<br>Cilia- and Flagella-Associated Protein 61 (CFAP61) is a human protein critically involved in sperm flagellum assembly, as demonstrated in multiple research studies. The protein plays an essential role in the formation of radial spokes within the flagellum axoneme, which are crucial structural components for proper flagellar function. CFAP61 localizes specifically to the cytoplasm, cytoskeleton, and flagellum axoneme, highlighting its specialized function in cellular motility structures. The full-length protein's involvement in these fundamental biological processes makes it an important target for reproductive biology and cellular dynamics research. |