# Recombinant CFA68 protein (His tag)

| | |
|---|---|
| **Catalog Number** | 548245 |
| **Species** | Human |
| **Expression System** | E. coli |
| **Accession** | Q9H5F2 |
| **Molecular Weight** | Predictes a molecular mass of 14.55 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 15 kDa band. |

## Product Information

| | |
|---|---|
| **Sequence Region** | 45-150 |
| **Form** | Lyophilized powder |
| **Formulation** | Lyophilized from sterile PBS, pH 7.4 |
| **Purity** | >90%, 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 45-150 aa (Q9H5F2) 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.<br>Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise. |

## Description

| | |
|---|---|
| **Description** | Recombinant CFAP68 Fragment (45-150) is a highly stable and soluble protein derived from human Cilia- and flagella-associated protein 68, designed for structural and functional studies of microtubule-associated proteins in cilia and flagella.<br>Cilia- and flagella-associated protein 68 (CFAP68) is a microtubule inner protein (MIP) integral to the dynein-decorated doublet microtubules (DMTs) within cilia and flagella axonemes, where it is essential for motile cilia beating. It localizes to the cytoplasm, cytoskeleton, cilium axoneme, flagellum axoneme, nucleus, and cell projection cilium, underscoring its critical role in cellular motility and structural organization. This recombinant fragment (residues 45-150) provides a defined, stable unit for investigating CFAP68's biochemical properties and interactions in ciliary function. |