Recombinant CF107 protein (His tag)

Catalog Number	551204
Species	Human
Expression System	E. coli
Accession	Q8N1D5
Molecular Weight	Predictes a molecular mass of 24.69 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 25 kDa band.

Product Information

Sequence Region	1-194
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, 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 1-194 aa (Q8N1D5) 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 Cilia- and flagella-associated protein 107 (CFAP107) fragment (amino acids 1-194) is a high-quality protein designed for structural and biochemical studies. This stable and soluble fragment represents a key functional unit, ideal for investigating microtubule-associated mechanisms in cilia and flagella motility. Cilia- and flagella-associated protein 107 (CFAP107) is a microtubule inner protein (MIP) integral to the dynein-decorated doublet microtubules (DMTs) within the cilia axoneme. It plays a critical role in enabling motile cilia beating, which is essential for cellular movement and signaling processes. The protein is localized to the cytoplasm, specifically within the cytoskeleton of both cilium and flagellum axonemes, underscoring its importance in microtubule dynamics and ciliary function. This recombinant fragment provides a focused tool for exploring CFAP107's structural and functional contributions to ciliary motility.