Recombinant CFA47 protein (His tag)

Catalog Number	545263
Species	Human
Expression System	E. coli
Accession	Q6ZTR5
Molecular Weight	Predictes a molecular mass of 56.19 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 57 kDa band.

Product Information

Sequence Region	39-522
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 39-522 aa (Q6ZTR5) 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 47 (CFAP47) Fragment (residues 39-522) is a high-quality, stable protein designed for structural and functional studies. This 484-amino acid fragment, derived from the CFAP47 gene, is ideal for investigating flagellar formation and sperm motility mechanisms in research applications. Cilia- and Flagella-Associated Protein 47 (CFAP47) plays a critical role in flagellar formation and sperm motility, as supported by experimental evidence (PubMed:33472045). The protein localizes to the cytoplasm, cytoskeleton, and flagellum basal body, indicating its involvement in the structural and functional integrity of motile cilia and flagella. The provided fragment (residues 39-522) was selected computationally to ensure stability and solubility, facilitating biochemical and structural analyses without the full-length protein's potential complexities.