Recombinant CFA74 protein (His tag)

Catalog Number	543561
Species	Human
Expression System	E. coli
Accession	Q9C0B2
Molecular Weight	Predictes a molecular mass of 43.97 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 44 kDa band.

Product Information

Sequence Region	742-1119
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 742-1119 aa (Q9C0B2) 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 CFAP74 (742-1119) is a high-purity protein fragment derived from Cilia- and flagella-associated protein 74, designed for structural and biochemical studies. This 378-amino acid fragment represents a stable, soluble region ideal for investigating cilium and flagella function, particularly in sperm architecture and motility. Cilia- and flagella-associated protein 74 (CFAP74), encoded by the CFAP74 gene in Homo sapiens, is a component of the central apparatus of the cilium axoneme and plays a role in cilium movement. It is also critical for sperm architecture and function, as supported by research evidence. The protein localizes to the cytoplasm, specifically within the cytoskeleton of the cilium and flagellum axonemes, highlighting its importance in cellular motility and structural integrity.