Recombinant CF97D protein (His tag)

Catalog Number	551340
Synonyms	CFAP97 domain-containing protein 1
Species	Human
Expression System	E. coli
Accession	B2RV13
Molecular Weight	Predictes a molecular mass of 21.20 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 21 kDa band.

Product Information

Sequence Region	1-164
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 1-164 aa (B2RV13) 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	Introducing our high-purity recombinant protein fragment of human Sperm Axonemal Maintenance Protein CFAP97D1 (CFAP97 domain-containing protein 1). This product encompasses amino acids 1-164, representing a stable and soluble unit computationally selected for optimal performance in structural biology and functional studies related to male fertility and sperm motility. The full-length CFAP97D1 protein is essential for male fertility, playing a critical role in stabilizing the axonemal doublet structure within sperm flagella. This stabilization is a fundamental requirement for proper sperm motility and successful fertilization. Our recombinant fragment (1-164) provides a defined, research-ready tool to investigate the molecular mechanisms underlying this vital biological function.