Recombinant CMIP5 protein (His tag)

Catalog Number	552015
Species	Human
Expression System	E. coli
Accession	Q96LR7
Molecular Weight	Predictes a molecular mass of 13.17 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 14 kDa band.

Product Information

Sequence Region	65-162
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 65-162 aa (Q96LR7) 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	This product is a high-quality recombinant protein fragment of human Ciliary microtubule inner protein 5 (CIMIP5), encompassing amino acids 65-162. This 98-amino acid fragment has been computationally designed for optimal stability and solubility, making it an ideal reagent for structural biology studies, biochemical assays, and functional investigations of ciliary components. Ciliary microtubule inner protein 5 (CIMIP5), encoded by the gene CIMIP5, is a human protein localized to the cell projection, specifically the cilium, as indicated by experimental evidence (UniProt ID: Q96LR7). Cilia are essential, hair-like organelles involved in cellular signaling, motility, and sensory perception. Proteins localized to the cilium, such as CIMIP5, are critical for its assembly, maintenance, and function. While a detailed molecular function summary is not provided, its specific subcellular localization strongly suggests a direct role in ciliary structure or intraflagellar transport processes, areas of significant interest in cell biology, developmental disorders, and ciliopathy research.