Recombinant CMI2B protein (His tag)

Catalog Number	541682
Species	Human
Expression System	E. coli
Accession	A8MTA8
Molecular Weight	Predictes a molecular mass of 14.01 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 14 kDa band.

Product Information

Sequence Region	165-275
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 165-275 aa (A8MTA8) 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 Ciliary Microtubule Inner Protein 2B (CIMIP2B) Fragment (aa 165-275) is a highly stable and soluble protein fragment designed for structural and biochemical research. This product enables detailed investigation of microtubule-associated mechanisms in motile cilia, supporting studies in cellular dynamics and ciliary function. Ciliary Microtubule Inner Protein 2B (CIMIP2B) is a microtubule inner protein integral to dynein-decorated doublet microtubules within cilia axonemes. It plays a critical role in the beating mechanism of motile cilia, which is essential for cellular motility and fluid movement. The protein localizes to the cytoplasm and cytoskeleton, specifically within cilium and flagellum axonemes, as evidenced by experimental data (UniProt ID: A8MTA8). This recombinant fragment represents a computationally optimized region (residues 165-275) selected for enhanced stability and solubility, facilitating experimental analysis of its structural and functional properties.