Recombinant CE104 protein (His tag)

Catalog Number	544131
Synonyms	Cep104
Species	Human
Expression System	E. coli
Accession	O60308
Molecular Weight	Predictes a molecular mass of 34.82 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 35 kDa band.

Product Information

Sequence Region	416-710
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 416-710 aa (O60308) 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 Centrosomal protein of 104 kDa (Cep104) fragment (residues 416-710) is a high-quality protein designed for structural and biochemical studies. This 295-amino acid fragment was computationally selected for optimal stability and solubility, enabling reliable investigation of Cep104's role in ciliogenesis and ciliary tip integrity. Centrosomal protein of 104 kDa (Cep104), encoded by the CEP104 gene, is essential for ciliogenesis and maintaining structural integrity at the ciliary tip. It localizes to centrioles in non-ciliated cells, with specific distribution patterns at the daughter centriole and ciliary tip in ciliated cells. During cell division, Cep104 associates with spindle poles, indicating additional roles in mitotic organization. Its precise localization at microtubule organizing centers underscores its importance in both primary and motile cilia formation and function.