Recombinant CEP70 protein (His tag)

Catalog Number	543201
Synonyms	Cep70; p10-binding protein
Species	Human
Expression System	E. coli
Accession	Q8NHQ1
Molecular Weight	Predictes a molecular mass of 44.31 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 49 kDa band.

Product Information

Sequence Region	1-360
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, 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 1-360 aa (Q8NHQ1) 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 offers a recombinant fragment (amino acids 1-360) of the human Centrosomal protein of 70 kDa (Cep70), a key regulator of microtubule organization in interphase and mitotic spindle orientation during cell division. The fragment is engineered for high stability and solubility, making it ideal for structural studies and biochemical assays. Centrosomal protein of 70 kDa (Cep70), encoded by the gene CEP70, plays a critical role in organizing both preexisting and nascent microtubules in interphase cells. During mitosis, it is essential for the proper organization and orientation of the mitotic spindle, ensuring accurate cell division. The protein localizes to the cytoplasm, specifically at the microtubule organizing center and centrosome, where it is found at the center of radial microtubule arrays in interphase and at spindle poles throughout mitosis. This localization underscores its importance in cytoskeletal dynamics and cellular division processes.