Recombinant CE350 protein (His tag)

Catalog Number	538217
Synonyms	Cep350; Centrosome-associated protein of 350 kDa
Species	Human
Expression System	E. coli
Accession	Q5VT06
Molecular Weight	Predictes a molecular mass of 10.87 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 11 kDa band.

Product Information

Sequence Region	1320-1400
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 1320-1400 aa (Q5VT06) 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 Centrosome-associated protein 350 (Cep350) Fragment (aa 1320-1400) is a highly stable and soluble 81-amino acid protein fragment designed for structural and biochemical studies. This fragment, derived from the essential centrosomal protein Cep350, enables researchers to investigate mechanisms of centriole growth, microtubule anchoring, and ciliation without the complexities of the full-length protein. Centrosome-associated protein 350 (Cep350) is a crucial human protein that plays multiple essential roles in centrosome function and cellular organization. It stabilizes procentriolar seeds during centriole growth, anchors microtubules to centrosomes to maintain microtubule network integrity, and is required for proper ciliation. Cep350 also recruits PPARA to specific subcellular compartments, modulating its activity. The protein localizes primarily to centrosomes, centrioles, mitotic spindles, and cilium basal bodies, with additional presence in the nucleus and association with intermediate filaments. Its strategic positioning at the distal end of centrioles and subdistal appendage regions underscores its importance in centrosomal architecture and function.