# Recombinant CE120 protein (His tag)

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| **Catalog Number** | 545459 |
| **Synonyms** | Cep120; Coiled-coil domain-containing protein 100 |
| **Species** | Human |
| **Expression System** | E. coli |
| **Accession** | Q8N960 |
| **Molecular Weight** | Predictes a molecular mass of 17.10 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 17 kDa band. |

## Product Information

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| **Sequence Region** | 1-134 |
| **Form** | Lyophilized powder |
| **Formulation** | Lyophilized from sterile PBS, pH 7.4 |
| **Purity** | >87%, 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 1-134 aa (Q8N960) were fused with 6His tag. |

## Storage & Handling

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| **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.<br>Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise. |

## Description

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| **Description** | Recombinant Human CEP120 (1-134) Fragment - A high-purity protein fragment encompassing the C2 domain of Centrosomal protein of 120 kDa (Cep120), designed as a specialized tool for studying centrosome function, nuclear migration, and neural development mechanisms.<br>Centrosomal protein of 120 kDa (Cep120), encoded by the CEP120 gene, plays critical roles in microtubule-dependent coupling of the nucleus and centrosome. This protein is essential for regulating centrosome-mediated interkinetic nuclear migration in neural progenitors and proper neuronal positioning during brain development. Cep120 also contributes to neural progenitor migration and self-renewal processes, and is required for centriole duplication, maturation during mitosis, and subsequent ciliogenesis. The protein localizes to the cytoplasm, cytoskeleton, and microtubule organizing center at the centrosome, where it regulates TACC3 localization in neural progenitors. The provided fragment (amino acids 1-134) contains the complete C2 domain, making it an ideal reagent for investigating the specific functional contributions of this domain to Cep120's biological activities. |