# Recombinant GCC2 protein (His tag)

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| **Catalog Number** | 540684 |
| **Synonyms** | 185 kDa Golgi coiled-coil protein; GCC185; CLL-associated antigen KW-11; CTCL tumor antigen se1-1; Ran-binding protein 2-like 4; RanBP2L4; Renal carcinoma antigen NY-REN-53 |
| **Species** | Human |
| **Expression System** | E. coli |
| **Accession** | Q8IWJ2 |
| **Molecular Weight** | Predictes a molecular mass of 14.94 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 15 kDa band. |

## Product Information

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| **Sequence Region** | 1568-1684 |
| **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 1568-1684 aa (Q8IWJ2) 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** | Introducing the recombinant GRIP and coiled-coil domain-containing protein 2 (GCC2) fragment (residues 1568-1684), a 117-amino acid segment that fully encompasses the GRIP domain. This product is engineered to support investigations into vesicular transport mechanisms and Golgi structure maintenance, providing researchers with a precise tool to study domain-specific functions.<br>The full-length GCC2 protein, encoded by the GCC2 gene in Homo sapiens, functions as a Golgin that tethers transport vesicles to the trans-Golgi network (TGN) and regulates vesicular transport between endosomes and the Golgi apparatus. As a RAB9A effector, it facilitates the recycling of the mannose 6-phosphate receptor from late endosomes to the TGN and may contribute to transport between recycling endosomes and the Golgi. Additionally, GCC2 is essential for maintaining Golgi structure by recruiting CLASP1 and CLASP2 to promote the biogenesis of noncentrosomal, Golgi-associated microtubules. It is localized in the cytoplasm and peripherally associated with the trans-Golgi network membrane, underscoring its critical role in intracellular trafficking and organelle organization. |