Recombinant COMDA protein (His tag)

Catalog Number	548621
Species	Human
Expression System	E. coli
Accession	Q9Y6G5
Molecular Weight	Predictes a molecular mass of 24.49 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 25 kDa band.

Product Information

Sequence Region	2-202
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 2-202 aa (Q9Y6G5) 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 COMMD10 (COMM domain-containing protein 10) fragment (amino acids 2-202) is a high-purity protein designed to encompass the full COMM domain. This fragment serves as a valuable tool for investigating the scaffolding functions of COMMD10 in the commander complex, endosomal recycling, and modulation of cullin-RING E3 ubiquitin ligase activity. COMM domain-containing protein 10 (COMMD10), encoded by the COMMD10 gene in Homo sapiens, functions as a scaffold protein within the commander complex, which is essential for the endosomal recycling of transmembrane cargos. This complex includes the CCC and retriever subcomplexes and plays a critical role in cellular trafficking. Additionally, COMMD10 may modulate the activity of cullin-RING E3 ubiquitin ligase (CRL) complexes and has been implicated in down-regulating NF-kappa-B activation. The protein is localized in both the cytoplasm and nucleus, highlighting its involvement in diverse cellular processes. The recombinant fragment (amino acids 2-202) includes the complete COMM domain, enabling focused studies on domain-specific interactions and functional mechanisms.