Recombinant COMD4 protein (His tag)

Catalog Number	538920
Species	Human
Expression System	E. coli
Accession	Q9H0A8
Molecular Weight	Predictes a molecular mass of 23.42 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 23 kDa band.

Product Information

Sequence Region	1-199
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 1-199 aa (Q9H0A8) 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 COMMD4 (COMM domain-containing protein 4) Fragment (1-199 aa) is a high-purity protein designed to encompass the full COMM domain, serving as an essential tool for investigating the role of COMMD4 as a scaffold in the commander complex and its involvement in endosomal recycling and NF-kappa-B regulation. COMM domain-containing protein 4 (COMMD4), encoded by the COMMD4 gene in Homo sapiens, functions as a scaffold protein within the commander complex, which is critical for the endosomal recycling of transmembrane cargos. This complex includes the CCC and retriever subcomplexes, and COMMD4 may also modulate the activity of cullin-RING E3 ubiquitin ligase (CRL) complexes. Additionally, it down-regulates NF-kappa-B activation, highlighting its importance in cellular signaling and homeostasis. The protein localizes to both the cytoplasm and nucleus, indicating its versatile roles in intracellular processes. The provided recombinant fragment spans amino acids 1-199, fully containing the COMM domain, enabling focused studies on domain-specific functions in research applications.