Recombinant COMD2 protein (His tag)

Catalog Number	548760
Species	Human
Expression System	E. coli
Accession	Q86X83
Molecular Weight	Predictes a molecular mass of 24.40 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 25 kDa band.

Product Information

Sequence Region	1-199
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 1-199 aa (Q86X83) 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 COMMD2 (1-199) is a high-purity protein fragment encompassing the complete COMM domain, designed for studying the role of COMM domain-containing protein 2 in endosomal recycling and cellular signaling pathways. This fragment serves as an essential tool for investigating domain-specific interactions and functions in the commander complex. COMM domain-containing protein 2 (COMMD2) functions as a scaffold protein within the commander complex, which is critical for the endosomal recycling of transmembrane cargos. It also modulates cullin-RING E3 ubiquitin ligase (CRL) complexes and has been implicated in the down-regulation of NF-kappa-B activation. The protein is localized in the cytoplasm, where it participates in key regulatory processes affecting cellular homeostasis and signal transduction.