Recombinant CCD93 protein (His tag)

Catalog Number	545118
Species	Human
Expression System	E. coli
Accession	Q567U6
Molecular Weight	Predictes a molecular mass of 47.00 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 52 kDa band.

Product Information

Sequence Region	244-631
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, 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 244-631 aa (Q567U6) 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 Coiled-coil domain-containing protein 93 (CCDC93) fragment (aa 244-631) is a highly stable and soluble protein unit ideal for structural biology and functional studies. This 388-amino acid fragment represents a key region of CCDC93, a critical component of the commander complex essential for endosomal recycling of transmembrane cargos. Coiled-coil domain-containing protein 93 (CCDC93) is a human protein that functions as a component of the commander complex, which is essential for endosomal recycling of transmembrane cargos. The commander complex consists of the CCC subcomplex and retriever subcomplex, working together to regulate endosomal recycling of surface proteins including integrins, signaling receptors, and channels. CCDC93 localizes to early endosomes and associates with SNX17, retriever, and WASH complexes to prevent lysosomal degradation and promote cell surface recycling of numerous cargos. The protein also plays a role in copper-dependent ATP7A trafficking between the trans-Golgi network and peripheral vesicles. Additionally, the CCC complex, in collaboration with the retriever complex, mediates the exit of human papillomavirus to the cell surface, highlighting its importance in both normal cellular function and microbial infection pathways.