Recombinant CCD91 protein (His tag)

Catalog Number	543014
Synonyms	GGA-binding partner; p56 accessory protein
Species	Human
Expression System	E. coli
Accession	Q7Z6B0
Molecular Weight	Predictes a molecular mass of 38.20 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 47 kDa band.

Product Information

Sequence Region	131-441
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>85%, 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 131-441 aa (Q7Z6B0) 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 91 (CCDC91) fragment (residues 131-441) is a stable, soluble protein designed for structural and biochemical studies. This fragment supports research into trans-Golgi network (TGN) membrane trafficking and lysosomal hydrolase sorting mechanisms. Coiled-coil domain-containing protein 91 (CCDC91), also known as GGA-binding partner or p56 accessory protein, plays a critical role in regulating membrane traffic through the trans-Golgi network (TGN). It functions in close cooperation with Golgi-localized, gamma-ear-containing, ADP-ribosylation factor-binding proteins (GGAs) to facilitate the sorting of hydrolases to lysosomes. CCDC91 is localized to the Golgi apparatus and TGN membrane, where it colocalizes with GGA1, GGA2, and GGA3, underscoring its importance in intracellular trafficking pathways. This recombinant fragment (residues 131-441) provides a stable and soluble unit ideal for investigating protein interactions and functional mechanisms.