Recombinant CCD25 protein (His tag)

Catalog Number	543056
Species	Human
Expression System	E. coli
Accession	Q86WR0
Molecular Weight	Predictes a molecular mass of 16.56 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 19 kDa band.

Product Information

Sequence Region	84-208
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 84-208 aa (Q86WR0) 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 Coiled-coil domain-containing protein 25 (CCDC25) fragment (residues 84-208) from Homo sapiens, designed for studying its role as a transmembrane receptor that senses neutrophil extracellular traps (NETs) and activates the ILK-PARVB pathway to enhance cell motility. This stable, soluble fragment is ideal for structural and biochemical investigations. Coiled-coil domain-containing protein 25 (CCDC25) is a transmembrane receptor in humans that detects neutrophil extracellular traps (NETs), which are DNA-based structures released by neutrophils during inflammation and cancer metastasis. CCDC25 specifically binds to 8-OHdG-enriched DNA in NETs via its extracellular region, recruiting ILK to initiate the ILK-PARVB signaling cascade. This pathway induces cytoskeleton rearrangement and directional cell migration, promoting cancer metastasis by enabling tumor cells to migrate toward NETs. The protein is localized to the cell membrane and endomembrane system, functioning as a single-pass membrane protein, and its activity is critical in inflammatory and oncogenic contexts.