Recombinant CERT protein (His tag)

Catalog Number	548602
Synonyms	hCERT; Collagen type IV alpha-3-binding protein; Goodpasture antigen-binding protein; GPBP; START domain-containing protein 11; StARD11; StAR-related lipid transfer protein 11
Species	Human
Expression System	E. coli
Accession	Q9Y5P4
Molecular Weight	Predictes a molecular mass of 28.58 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 29 kDa band.

Product Information

Sequence Region	389-624
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 389-624 aa (Q9Y5P4) 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 Ceramide Transfer Protein (hCERT) START Domain Fragment (residues 389-624) – a high-purity protein fragment designed for studying ceramide and diacylglycerol lipid trafficking mechanisms. This product encompasses the full START domain, enabling targeted investigation of non-vesicular intracellular lipid transport. Ceramide transfer protein (hCERT), encoded by the CERT1 gene, plays a critical role in intracellular lipid transport by sheltering ceramides and diacylglycerol lipids within its START domain and facilitating their non-vesicular movement between organelles. The full-length protein localizes primarily to the Golgi apparatus, with additional presence in the cytoplasm and endoplasmic reticulum, reflecting its function in maintaining lipid homeostasis across cellular compartments. This specific fragment (389-624) contains the complete START domain, allowing researchers to isolate and characterize the structural and functional properties central to ceramide binding and transfer activities.