Recombinant PLIN4 protein (His tag)

Catalog Number	548036
Synonyms	Adipocyte protein S3-12
Species	Human
Expression System	E. coli
Accession	Q96Q06
Molecular Weight	Predictes a molecular mass of 24.08 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 24 kDa band.

Product Information

Sequence Region	1164-1371
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 1164-1371 aa (Q96Q06) 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	This product is a recombinant fragment of Perilipin-4 (Adipocyte protein S3-12), corresponding to residues 1164-1371 of the human protein. It is designed to support studies on lipid droplet biogenesis and triacylglycerol packaging in adipocytes, offering a stable and soluble unit ideal for structural and biochemical research. Perilipin-4, encoded by the PLIN4 gene in humans, is implicated in the packaging of triacylglycerol into adipocytes and functions as a coat protein involved in lipid droplet formation. According to functional annotations, it localizes to the cell membrane, cytoplasm, and lipid droplets, with its association to nascent lipid droplets being dependent on triacylglycerol synthesis. This highlights its critical role in lipid storage and metabolic processes, making it a key target for obesity and metabolic disease research.