Recombinant PLIN3 protein (His tag)

Catalog Number	546512
Synonyms	47 kDa mannose 6-phosphate receptor-binding protein; 47 kDa MPR-binding protein; Cargo selection protein TIP47; Mannose-6-phosphate receptor-binding protein 1; Placental protein 17; PP17
Species	Human
Expression System	E. coli
Accession	O60664
Molecular Weight	Predictes a molecular mass of 27.90 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 28 kDa band.

Product Information

Sequence Region	202-434
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, 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 202-434 aa (O60664) 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 Perilipin-3 (PLIN3) Fragment (202-434) is a high-purity, stable protein designed for structural and biochemical research. This 233-amino acid fragment represents a soluble domain of Perilipin-3, a key regulator of lipid droplet formation and intracellular vesicle transport, offering researchers a reliable tool for studying lipid metabolism and endosomal trafficking mechanisms. Perilipin-3 (PLIN3) is a multifunctional protein essential for lipid storage and intracellular transport. As a structural component of lipid droplets, it plays a critical role in the formation and maintenance of lipid storage compartments. Additionally, Perilipin-3 facilitates the transport of mannose 6-phosphate receptors from endosomes to the trans-Golgi network, highlighting its importance in vesicular trafficking pathways. The protein localizes primarily to lipid droplets, endosome membranes (as a peripheral membrane protein on the cytoplasmic side), and the cytoplasm, where it participates in fundamental cellular processes related to lipid homeostasis and receptor recycling.