Recombinant PPA6 protein (His tag)

Catalog Number	541322
Synonyms	Acid phosphatase 6, lysophosphatidic; Acid phosphatase-like protein 1; PACPL1
Species	Human
Expression System	E. coli
Accession	Q9NPH0
Molecular Weight	Predictes a molecular mass of 46.00 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 46 kDa band.

Product Information

Sequence Region	42-428
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 42-428 aa (Q9NPH0) 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 Lysophosphatidic Acid Phosphatase Type 6 (ACP6) Fragment (residues 42-428) is a high-purity, stable protein designed for structural and biochemical studies. This fragment retains key functional regions, enabling research into lysophosphatidic acid hydrolysis and lipid signaling pathways. Lysophosphatidic Acid Phosphatase Type 6 (ACP6) is a human enzyme that catalyzes the hydrolysis of lysophosphatidic acid (LPA) with medium-chain fatty acids—such as myristate (C14:0), oleate (C18:1), and palmitate (C16:0)—into monoacylglycerols. It plays a critical role in regulating LPA levels, which are involved in cellular signaling processes. The enzyme is localized to the mitochondrion, suggesting potential roles in mitochondrial lipid metabolism or signaling. This recombinant fragment provides a soluble, stable unit ideal for investigating its enzymatic activity and structure-function relationships.