Recombinant PLPL7 protein (His tag)

Catalog Number	542970
Species	Human
Expression System	E. coli
Accession	Q6ZV29
Molecular Weight	Predictes a molecular mass of 55.94 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 56 kDa band.

Product Information

Sequence Region	729-1215
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, 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 729-1215 aa (Q6ZV29) 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 PNPLA7 Protein Fragment (aa 729-1215) - A specialized research tool containing the complete PNPLA functional domain for studying lysophospholipase activity and lipid metabolism regulation. Patatin-like phospholipase domain-containing protein 7 (PNPLA7) is a human enzyme with lysophospholipase activity that preferentially deacylates unsaturated lysophosphatidylcholine, generating glycerophosphocholine. This enzyme also demonstrates activity toward lysophosphatidylethanolamine, lysophosphatidyl-L-serine, and lysophosphatidic acid, though to a lesser extent. PNPLA7 localizes to the endoplasmic reticulum membrane as a single-pass type III membrane protein and is also found in lipid droplets, indicating its important role in lipid metabolism and membrane remodeling processes within these cellular compartments.