Recombinant PLPL5 protein (His tag)

Catalog Number	549262
Synonyms	GS2-like protein
Species	Human
Expression System	E. coli
Accession	Q7Z6Z6
Molecular Weight	Predictes a molecular mass of 45.95 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 46 kDa band.

Product Information

Sequence Region	1-395
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 1-395 aa (Q7Z6Z6) 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 PNPLA5 (Patatin-like phospholipase domain-containing protein 5) Fragment (aa 1-395) – a high-purity protein fragment engineered to encompass the complete PNPLA domain, offering researchers a targeted tool for investigating triacylglycerol lipase activity and lipid metabolism mechanisms. The full-length Patatin-like phospholipase domain-containing protein 5 (PNPLA5), encoded by the PNPLA5 gene in Homo sapiens, functions as a triacylglycerol lipase (EC 3.1.1.3) with abundant enzymatic activity, as supported by experimental evidence (ECO:0000269|PubMed:16150821). This protein plays a significant role in lipid metabolism by hydrolyzing triacylglycerols, contributing to cellular energy homeostasis and lipid storage regulation. The recombinant fragment (aa 1-395) includes the functional PNPLA domain (aa 12-181), enabling focused studies on domain-specific lipase functions without interference from other regions.