

PNPLA2 Protein, Human, Recombinant (His & SUMO)

General Information

Synonyms:	Patatin-like phospholipase domain-containing protein 2; Pigment epithelium-derived factor receptor (PEDF-R); PNPLA2; TTS2.2; ATGL; Transport-secretion protein 2 (TTS2); Desnutrin; Calcium-independent phospholipase A2-zeta (iPLA2-zeta); Adipose triglyceride lipase
Protein Construction:	1-504 aa
Species:	Human
Expression Host:	E. coli
Accession:	Q96AD5
Molecular Weight:	71.3 kDa (predicted)
AA Sequence:	MFPREKTWNISFAGCGFLGVYVGVASCLREHAPFLVANATHIYGASAGALTATALVTGVCLGEAGAKFIEVS KEARKRFLGPLHPSFNLVKIIRSFLKVLPADESHEHASGRLGISLTRVSDGENVIISHFNKDELIQANVCSGFIP VYCGLIPPSLQGVRYVDGGISDNLPLYELKNTITVSPFSGESDIPQDSSTNIHELRTNTSIQFNLRNLYRLSKA LFPPEPLVLRMCKQGYRDGLRFLQRNGLLNRPNLLALPPARPHGPEDKDKQAVESAQAEDYSQLPGEDHIL EHLPARLNEALLEACVEPTDLLTTLNMLPVRLATAMMVPTLPLESALSFTIRLLEWLDPVPEDIRWMKEQTG SICQYLVMAKRKLGRHLP SRLPEQVELRRVQSLPSVPLSCAAYREALPGWMRNLSLGDALAKWEECQRQL LLGLFCTNVAFPPEALRM RAPADPAPAPADPASPQHQLAGPAPLLSTPAPEARPVIGALGL

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Catalyzes the initial step in triglyceride hydrolysis in adipocyte and non-adipocyte lipid droplets. Exhibits a strong preference for the hydrolysis of long-chain fatty acid esters at the sn-2 position of the glycerol backbone. Also has acylglycerol transacylase activity. Acts coordinately with LIPE/HLS and DGAT2 within the lipolytic cascade. Transfers fatty acid from triglyceride to retinol, hydrolyzes retinylesters, and generates 1,3-diacylglycerol from triglycerides. Regulates adiposome size and may be involved in the degradation of adiposomes. May play an important role in energy homeostasis. May play a role in the response of the organism to starvation, enhancing hydrolysis of triglycerides and providing free fatty acids to other tissues to be oxidized in situations of energy depletion.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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