

Recombinant Human PNPLA2, His-tagged

Cat. No. PNPLA2-322H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	A DNA sequence encoding the human ATGL (Met1-Leu504) with 6 His tag on the N-Terminus was expressed in E. Coli. This protein was purified by Ni-NTA column.
Species	Human
Source	E.coli
ProteinLength	1-504 a.a.
Description	This gene encodes an enzyme which catalyzes the first step in the hydrolysis of triglycerides in adipose tissue. Mutations in this gene are associated with neutral lipid storage disease with myopathy.
Form	Lyophilized 100 ug human ATGL in 100 ul of TBS (20 mM Tris, 50mM NaCl, pH8.0), Carry free.
Molecular Mass	73 KD
AA Sequence	human ATGL (Met1-Leu504)1 MFPREKTWNI SFAGCGFLGV YYVGVASCLR EHAPFLVANA THIYGASAGA LTATALVTGV CLGEAGAKFI EVSKEARKRF LGPLHPSFNL VKIIRSFLK VLPADSHEHA SGRLGISLTRVSDGENVIIS HFNSKDELIQ ANVCSGFIPV YCGLIPPSLQ GVRYVDGGIS DNLPLYELKN TITVSPFSGE SDICPQDSST NIHELVRTNT SIQFNLRNLY RLSKALFPPE PLVLREMCKQGYRDGLRFLQ RNgLLNRPNP LLALPPARPH GPEDKDQAVE SAQAEDYSQL PGEDHILEHL PARLNEALLE ACVEPTDLLT TLSNMLPVRL

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ATAMMVPYTL PLESALSFTI RLEWLDPVPEDIRWMKEQT GSICQYLVMR
AKRKLGRHLP SRLPEQVELR RVQSLPSVPL SCAAYREALP GWMRNNLSLG
DALAKWEECQ RQLLLGLFCT NVAFPPEALR MRAPADPAPA
PADPAS PQHQLAGPAPLLST PAPEARPVIG ALGL 504

Purity >90% in SDS-PAGE gel

Applications Biology; ELISA

Storage Store lyophilized protein at -20 °C or -70 °C. Lyophilized protein is stable for up to 6 months from date of receipt at -20 °C to -70 °C. Upon reconstitution, this protein can be stored at -20 °C for a few weeks or at -70 °C in a manual defrost freezer for long term storage (six months). Aliquot reconstituted protein to avoid repeated freezing / thawing cycles.

Reconstitution Add 500 ul deionized water to the vial to prepare a working stock solution at 200 ug/mL . Allow to set at least 30 minutes at 4 °C, mix well.

GENE INFORMATION

Gene Name PNPLA2 patatin-like phospholipase domain containing 2 [Homo sapiens]

Official Symbol PNPLA2

Synonyms PNPLA2; patatin-like phospholipase domain containing 2; TGL; TTS2; PEDF-R; FP17548; TTS-2.2; DESNUTRIN; DKFZp667M109; 1110001C14Rik; triglyceride hydrolase; adipose triglyceride lipase; transport-secretion protein 2.2; pigment epithelium-derived factor; Patatin-like phospholipase domain-containing protein 2; EC 3.1.1.3; Adipose triglyceride lipase; Desnutrin; Transport-secretion protein 2; TTS2.2; Calcium-independent phospholipase A2; IPLA2-zeta; Pigment epithelium-derived factor

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Gene ID	57104
mRNA Refseq	NM_020376
Protein Refseq	NP_065109
MIM	609059
UniProt ID	Q96AD5
Chromosome Location	11p15.5
Pathway	Acyl chain remodeling of DAG and TAG; Acylglycerol degradation; Fatty Acid Beta Oxidation; Glycerolipid metabolism
Function	triglyceride lipase activity

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