

Recombinant Human PNPLA3, His-tagged

Cat. No. PNPLA3-321H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PNPLA3 encoding the human PNPLA3 (Met ¹ –Leu ⁴⁸¹) was expressed in <i>E.coli</i> . It was recombined with a Hexa-his tag at the N-Terminus and purified by Ni-NTA column. MW=53.0 KD.
Species	Human
Source	E.coli
Protein Length	1-481 a.a.
Description	Patatin-like phospholipase domain-containing protein 3 is an enzyme that in humans is encoded by the PNPLA3 gene. The protein encoded by this gene is a triacylglycerol lipase that mediates triacylglycerol hydrolysis in adipocytes. The encoded protein, which appears to be membrane bound, may be involved in the balance of energy usage/storage in adipocytes.
Sequence	Human PNPLA3 (Met ¹ –Leu ⁴⁸¹) 1 MYDAERGWSL SFAGCGFLGF YHVGATRCLS EH APHLLRDA RMLFGASAGA LHCVGVLSGI PLEQTLQVLS DLVRKARSRN IGIFHPSF NL SKFLRQGLGK CLPANVHQLI SGKIGISLTR VSDGENVLVS DFRSKDEVVD ALV CSCFMPF YSGLIPPSFR GVRVVDGGVS DNVPFIDAKT TITVSPFYGE YDICPKVKS T NFLHVDITKL SLRLCTGNLY LLSRAFVPPD LKVLGEICLR GYLDAFRFLE EKGICN RPQP GLKSSSEGMD PEVAMPSWAN MSLDSSPESA ALAVRLEGDE LLDHLRLSIL PWDESILDTL SPRLATALSE EMKDKGGYMS KICNLLPIRI MSYVMLPCTL PVESAIA IVQ RLVTWLPDMP DDVLWLQWVT SQVFTRVLMC LLPASRSQMP VSSQQASPCT

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	PEQDWPCWTP CSPEGCPAET KAEATPRSIL RSSLNFFLGN KVPAGAEGLS TFPS FSLEKS 481
Formulation	Lyophilized 100µg human PNPLA3 in 50µl of TBS (20mM Tris, 50mM NaCl, pH8.0). Carry free.
Purity	>95% by SDS gel.
Application	Cell biology.
Reconstitution	Add 500µl deionized water to the vial to prepare a working stock solution at 200µg/mL. Allow to set at least 30 minutes at 4°C, mix well.
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.

GENE INFORMATION

Gene Name	PNPLA3 patatin-like phospholipase domain containing 3 [Homo sapiens]
Synonyms	PNPLA3; patatin-like phospholipase domain; containing 3; dJ796I17.1; FLJ22012; ADPN; C22orf20; iPLA(2)epsilon; patatin-like phospholipase domain containing 3; adiponutrin; chromosome 22 open reading frame 20; Patatin-like phospholipase domain-containing protein 3; EC 3.1.1.3; Adiponutrin; Acylglycerol O-acyltransferase; EC 2.3.1.-; Calcium-independent phospholipase A2-epsilon; iPLA2-epsilon; OTTHUMP00000028602

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Gene ID	80339
mRNA Refseq	NM_025225
Protein Refseq	NP_079501
MIM	609567
UniProt ID	Q9NST1
Chromosome Location	22q13.31
Pathway	1- and 2-Methylnaphthalene degradation; Benzoate degradation via CoA ligation; Glycerolipid metabolism; Glycerophospholipid metabolism; Limonene and pinene degradation; Metabolic pathways; Phenylalanine metabolism; Tyrosine metabolism
Function	acyltransferase activity; diolein transacylation activity; hydrolase activity; mono-olein transacylation activity; phospholipase A2 activity; transferase activity; triglyceride lipase activity