

Recombinant Human PNPLA3, His-tagged

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

SPECIFICATION

Product Overview Recombinant Human PNPLA3 encoding the human PNPLA3 (Met¹–Leu⁴⁸¹) was expressed in *E.coli*. 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 (Met¹–Leu⁴⁸¹)
 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

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