

Datasheet for ABIN7550739
PNPLA3 Protein (AA 1-481) (His tag)



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Overview

| | |
|-------------------------------|---|
| Quantity: | 1 mg |
| Target: | PNPLA3 |
| Protein Characteristics: | AA 1-481 |
| Origin: | Human |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This PNPLA3 protein is labelled with His tag. |

Product Details

| | |
|--------------|---|
| Purpose: | Custom-made recombinant PNPLA3 Protein expressed in mammalian cells. |
| Sequence: | <p>MYDAERGWSL SFAGCGFLGF YHVGATRCLS EHAPHLLRDA RMLFGASAGA LHCVGVLSGI PLEQTLQVLS DLVRKARSRN IGIFHPSFNL SKFLRQGLCK CLPANVHQLI SGKIGISLTR VSDGENVLVS DFRSKDEVVD ALVCSCFIPF YSGLIPPSFR GVRVVDGGVS DNVPFIDAKT TITVSPFYGE YDICPKVKST NFLHVDITKL SLRLCTGNLY LLSRAFVPPD LKVLGEICLR GYLDAFRFLE EKGICNRPQP GLKSSSEGMD PEVAMPSWAN MSLDSSPESA ALAVRLEGDE LLDHLRLSIL PWDESILDTL SPRLATALSE EMKDKGGYMS KICNLLPIRI MSYVMLPCTL PVESAIAIVQ RLVTWLPDMP DDVLWLQWVT SQVFTRVLMC LLPASRSQMP VSSQQASPCT PEQDWPCWTP CSPKGCPAET KAEATPRSIL RSSLNFFLGN KVPAGAEGLS TFPSFSLEKS L</p> <p>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</p> |
| Specificity: | If you are looking for a specific domain and are interested in a partial protein or a different |

Product Details

isoform, please contact us regarding an individual offer.

Characteristics:

Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:

> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade:

custom-made

Target Details

Target:

PNPLA3

Alternative Name:

PNPLA3 ([PNPLA3 Products](#))

Background:

1-acylglycerol-3-phosphate O-acyltransferase PNPLA3 (EC 2.3.1.51) (Acylglycerol transacylase) (Adiponutrin) (ADPN) (Calcium-independent phospholipase A2-epsilon) (iPLA2-epsilon) (EC 3.1.1.4) (Lysophosphatidic acid acyltransferase) (Patatin-like phospholipase domain-containing protein 3) (EC 3.1.1.3),FUNCTION: Specifically catalyzes coenzyme A (CoA)-dependent acylation of 1-acyl-sn-glycerol 3-phosphate (2-lysophosphatidic acid/LPA) to generate phosphatidic acid (PA), an important metabolic intermediate and precursor for both triglycerides and glycerophospholipids. Does not esterify other lysophospholipids. Acyl donors are long chain (at least C16) fatty acyl-CoAs: arachidonoyl-CoA, linoleoyl-CoA, oleoyl-CoA and at a lesser extent palmitoyl-CoA (PubMed:22560221). Additionally possesses low triacylglycerol lipase and CoA-independent acylglycerol transacylase activities and thus may play a role in acyl-chain remodeling of triglycerides (PubMed:15364929, PubMed:20034933, PubMed:22560221). In vitro may express hydrolytic activity against glycerolipids triacylglycerol,

Target Details

diacylglycerol and monoacylglycerol, with a strong preference for oleic acid as the acyl moiety (PubMed:21878620). However, the triacylglycerol hydrolase activity is controversial and may be very low (PubMed:22560221). Possesses phospholipase A2 activity (PubMed:15364929). {ECO:0000269|PubMed:15364929, ECO:0000269|PubMed:20034933, ECO:0000269|PubMed:21878620, ECO:0000269|PubMed:22560221}.

Molecular Weight: 52.9 kDa

UniProt: [Q9NST1](#)

Application Details

Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months