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Datasheet for ABIN7564371

PNPLA2 Protein (AA 1-486) (His tag)

Overview

Quantity:	1 mg
Target:	PNPLA2
Protein Characteristics:	AA 1-486
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PNPLA2 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Pnpla2 Protein expressed in mammalian cells.
Sequence:	<p>MFPRETKWNI SFAGCGFLGV YHIGVASCLR EHAPFLVANA THYIGASAGA LTATALVTGA CLGEAGANII EVSKEARKRF LGPLHPSFNL VKTIRGCLLK TLPADCHERA NGRLGISLTR VSDGENVIIS HFSSKDELIQ ANVCSTFIPV YCGLIPPTLQ GVMRYVDGGIS DNLPLYELKN TITVSPFSGE SDICPQDSST NIHELVRTNT SIQFNLRNLY RLSKALFPPE PMVREMCKQ GYRDGLRFLR RNGLLNQPNP LLALPPVVPQ EEDAEEAAVV EERAGEEDQL QPYRKDRILE HLPARLNEAL LEACVEPKDL MTTLSNMLPV RLATAMMVPY TLPLESAVSF TIRLLEWLPD VPEDIRWMKE QTGSICQYLV MRAKRKLGDH LPSRLSEQVE LRRASLPSV PLSCATYSEA LPNWVRNLS LGDALAKWEE CQRQLLLGLF CTNVAFPDA LRMRAPASPT AADPATPQDP PGLPPC 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

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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:

PNPLA2

Alternative Name:

Pnpla2 ([PNPLA2 Products](#))

Background:

Patatin-like phospholipase domain-containing protein 2 (EC 3.1.1.3) (Adipose triglyceride lipase) (Calcium-independent phospholipase A2-zeta) (iPLA2-zeta) (EC 3.1.1.4) (Desnutrin),FUNCTION: Catalyzes the initial step in triglyceride hydrolysis in adipocyte and non-adipocyte lipid droplets (PubMed:15550674, PubMed:23066022, PubMed:15337759, PubMed:16150821, PubMed:16679289, PubMed:17074755, PubMed:16675698, PubMed:17114792). Exhibits a strong preference for the hydrolysis of long-chain fatty acid esters at the sn-2 position of the glycerol backbone and acts coordinately with LIPE/HLS and DGAT2 within the lipolytic cascade (PubMed:23066022). Also possesses acylglycerol transacylase and phospholipase A2 activities (By similarity). Transfers fatty acid from triglyceride to retinol, hydrolyzes retinylesters, and generates 1,3-diacylglycerol from triglycerides (By similarity). Regulates adiposome size and may be involved in the degradation of adiposomes (By similarity). May play an important role in energy homeostasis (PubMed:16675698). May play a role in the response of the organism to

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starvation, enhancing hydrolysis of triglycerides and providing free fatty acids to other tissues to be oxidized in situations of energy depletion (PubMed:15337759). Catalyzes the formation of an ester bond between hydroxy fatty acids and fatty acids derived from triglycerides or diglycerides to generate fatty acid esters of hydroxy fatty acids (FAHFAs) in adipocytes (PubMed:35676490). {ECO:0000250|UniProtKB:Q96AD5, ECO:0000269|PubMed:15337759, ECO:0000269|PubMed:15550674, ECO:0000269|PubMed:16150821, ECO:0000269|PubMed:16675698, ECO:0000269|PubMed:16679289, ECO:0000269|PubMed:17074755, ECO:0000269|PubMed:17114792, ECO:0000269|PubMed:23066022, ECO:0000269|PubMed:35676490}.

Molecular Weight: 53.7 kDa

UniProt: [Q8BJ56](#)

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