

Datasheet for ABIN3093621 Lipin 1 Protein (LPIN1) (AA 1-890) (Strep Tag)



Overview

Quantity:	250 µg
Target:	Lipin 1 (LPIN1)
Protein Characteristics:	AA 1-890
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Lipin 1 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	AliCE®
Sequence:	MNYVGQLAGQ VFVTVKELYK GLNPATLSGC IDIIVIRQPN GNLQCSPFHV RFGKMGVLRS
	REKVVDIEIN GESVDLHMKL GDNGEAFFVQ ETDNDQEVIP MHLATSPILS EGASRMECQL
	KRGSVDRMRG LDPSTPAQVI APSETPSSSS VVKKRRKRRR KSQLDSLKRD DNMNTSEDED
	MFPIEMSSDE AMELLESSRT LPNDIPPFQD DIPEENLSLA VIYPQSASYP NSDREWSPTP
	SPSGSRPSTP KSDSELVSKS TERTGQKNPE MLWLWGELPQ AAKSSSPHKM KESSPLSSRK
	ICDKSHFQAI HSESSDTFSD QSPTLVGGAL LDQNKPQTEM QFVNEEDLET LGAAAPLLPM
	IEELKPPSAS VVQTANKTDS PSRKRDKRSR HLGADGVYLD DLTDMDPEVA ALYFPKNGDP
	SGLAKHASDN GARSANQSPQ SVGSSGVDSG VESTSDGLRD LPSIAISLCG GLSDHREITK
	DAFLEQAVSY QQFVDNPAII DDPNLVVKIG SKYYNWTTAA PLLLAMQAFQ KPLPKATVES
	IMRDKMPKKG GRWWFSWRGR NTTIKEESKP EQCLAGKAHS TGEQPPQLSL ATRVKHESSS
	SDEERAAAKP SNAGHLPLLP NVSYKKTLRL TSEQLKSLKL KNGPNDVVFS VTTQYQGTCR

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Characteristics:

Key Benefits:

- Made in Germany from design to production by highly experienced protein experts.
- Protein expressed with ALiCE® and purified in one-step affinity chromatography
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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.

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.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require posttranslational modifications.
- During lysate production, the cell wall and other cellular components that are not required for
 protein production are removed, leaving only the protein production machinery and the
 mitochondria to drive the reaction. During our lysate completion steps, the additional
 components needed for protein production (amino acids, cofactors, etc.) are added to
 produce something that functions like a cell, but without the constraints of a living system all that's needed is the DNA that codes for the desired protein!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

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Product Details	
Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression
	System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made
Target Details	
Target:	Lipin 1 (LPIN1)
Alternative Name:	LPIN1 (LPIN1 Products)
Background: Molecular Weight:	Phosphatidate phosphatase LPIN1 (EC 3.1.3.4) (Lipin-1),FUNCTION: Acts as a magnesium- dependent phosphatidate phosphatase enzyme which catalyzes the conversion of phosphatidic acid to diacylglycerol during triglyceride, phosphatidylcholine and phosphatidylethanolamine biosynthesis and therefore controls the metabolism of fatty acids a different levels (PubMed:20231281, PubMed:29765047). Is involved in adipocyte differentiation (By similarity). Acts also as nuclear transcriptional coactivator for PPARGC1A/PPARA regulatory pathway to modulate lipid metabolism gene expression (By similarity). Recruited at the mitochondrion outer membrane and is involved in mitochondrial fission by converting phosphatidic acid to diacylglycerol (By similarity). {ECO:0000250 UniProtKB:Q91ZP3, ECO:0000269 PubMed:20231281, ECO:0000269 PubMed:29765047}.
JniProt:	Q14693
Pathways:	Monocarboxylic Acid Catabolic Process
Application Details	
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Comment:	ALICE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications. During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the

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Application Details	
	mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Format: Buffer:	Liquid The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.
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Buffer: Handling Advice:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein. Avoid repeated freeze-thaw cycles.