

Datasheet for ABIN3136284

PLIN5 Protein (AA 1-463) (His tag)[Go to Product page](#)**1** Image

Overview

Quantity:	1 mg
Target:	PLIN5
Protein Characteristics:	AA 1-463
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PLIN5 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

Product Details

Sequence: MDQRGEDTTL APHSRMSGDQ TAQDPGSSLG ELDQQNVVNR VVALPLVKAT CTAVSSAYNS
AKDRHPLLGS ACRLAHCVC SVTTCALDHA QPLLEHLQPQ LATVNDLACR GLDKLEELP
FLQQPSDMVV TSAKDTVAKS VTGMVDLAQR GRRWSGELRR SMSQAMDMVL GKSEKLVDRF
LPMTEAELAV LAEEAEGPEV GTVEEQRQQQ GYFVRLGSLR ARLRHLYEH SLGKLRQSKH
RTQEMLAQLQ ETLELIQHMV RGASPSPTFH PPKTQELWGS WSPCLENGRS HSEVELETLA
LSRSLTLELQ NAVDALAGCV RGLPPSAQAK VAEVQRSVDA LQATFADAHC LGDVAPTALA
EGRGSVARAH ACVDEFDLV LRAMPLPWLV GPFAPILVEQ SEPLINLATC VDEVVGDPDP
RWAHMDWPAQ KRAWAEASAD PGGQAEPPR GQKHTMMPE LDF

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

- Characteristics:
- Made in Germany - from design to production - by highly experienced protein experts.
 - Mouse Plin5 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to

ensure crystallization grade.

- 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 will ensure that you receive a correctly folded 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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the ExPASy's protParam tool to determine the absorption coefficient of each protein.

Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells: <ol style="list-style-type: none">1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

Target Details

Target:	PLIN5
Alternative Name:	Plin5 (PLIN5 Products)

Target Details

Background: Lipid droplet-associated protein that maintains the balance between lipogenesis and lipolysis and also regulates fatty acid oxidation in oxidative tissues. Recruits mitochondria to the surface of lipid droplets and is involved in lipid droplet homeostasis by regulating both the storage of fatty acids in the form of triglycerides and the release of fatty acids for mitochondrial fatty acid oxidation. In lipid droplet triacylglycerol hydrolysis, plays a role as a scaffolding protein for three major key lipolytic players: ABHD5, PNPLA2 and LIPE. Reduces the triacylglycerol hydrolase activity of PNPLA2 by recruiting and sequestering PNPLA2 to lipid droplets. Phosphorylation by PKA enables lipolysis probably by promoting release of ABHD5 from the perilipin scaffold and by facilitating interaction of ABHD5 with PNPLA2. Also increases lipolysis through interaction with LIPE and upon PKA-mediated phosphorylation of LIPE. {ECO:0000269|PubMed:17130488, ECO:0000269|PubMed:19064991, ECO:0000269|PubMed:21393244, ECO:0000269|PubMed:21885430, ECO:0000269|PubMed:22532565, ECO:0000269|PubMed:22675471, ECO:0000269|PubMed:23345411}.

Molecular Weight: 51.4 kDa Including tag.

UniProt: [Q8BVZ1](#)

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: Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: 100 mM NaCl, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Handling

Expiry Date: Unlimited (if stored properly)

Images



Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process