

Datasheet for ABIN7554960
PLIN5 Protein (AA 1-463) (His tag)



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Overview

Quantity:	1 mg
Target:	PLIN5
Protein Characteristics:	AA 1-463
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PLIN5 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant PLIN5 Protein expressed in mammalian cells.
Sequence:	MSEEEAAQIP RSSVWEQDQQ NVVQRVVALP LVRATCTAVC DVYSAAKDRH PLLGSACRLA ENCVCGLTTR ALDHAQPLLE HLQPQLATMN SLACRGLDKL EEKLPFLQQP SETVVTSAKD VVASSVTGVV DLARRGRRWS VELKRSVSHA VDVVLEKSEE LVDHFLPMTE EELAALAAEA EGPEVGSVED QRRQQGYFVR LGSLSARIRH LAYEHSVGLK RQSKHRAQDT LAQLQETLEL IDHMQCGVTP TAPACPGKVH ELWGEWGQRP PESRRRSQAE LETLVLSRSL TQELQGTVEA LESSVRGLPA GAQEKVAEVR RSDALQTAF ADARCFRDVP AAALAEGRGR VAHAHACVDE LLELVVQAVP LPWLVGPFAP ILVERPEPLP DLADLVDEVI GGPDPRW AHL DWPAQQRAWE AEHRDGSNG DGDRMGVAGD ICEQEPETPS CPVKHTLMPE LDF 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.
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:

PLIN5

Alternative Name:

PLIN5 ([PLIN5 Products](#))

Background:

Perilipin-5 (Lipid storage droplet protein 5),FUNCTION: 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 (By similarity). {ECO:0000250, ECO:0000269|PubMed:17234449}.

Target Details

Molecular Weight: 50.8 kDa

UniProt: [Q00G26](#)

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