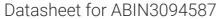
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## PLIN5 Protein (AA 1-463) (Strep Tag)



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Quantity:	1 mg	
Target:	PLIN5	
Protein Characteristics:	AA 1-463	
Origin:	Human	
Source:	Tobacco (Nicotiana tabacum)	
Protein Type:	Recombinant	
Purification tag / Conjugate:	This PLIN5 protein is labelled with Strep Tag.	
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA	

#### **Product Details**

Sequence:

MSEEEAAQIP RSSVWEQDQQ NVVQRVVALP LVRATCTAVC DVYSAAKDRH PLLGSACRLA ENCVCGLTTR ALDHAQPLLE HLQPQLATMN SLACRGLDKL EEKLPFLQQP SETVVTSAKD VVASSVTGVV DLARRGRRWS VELKRSVSHA VDVVLEKSEE LVDHFLPMTE EELAALAAEA EGPEVGSVED QRRQQGYFVR LGSLSARIRH LAYEHSVGKL RQSKHRAQDT LAQLQETLEL IDHMQCGVTP TAPACPGKVH ELWGEWGQRP PESRRRSQAE LETLVLSRSL TQELQGTVEA LESSVRGLPA GAQEKVAEVR RSVDALQTAF ADARCFRDVP AAALAEGRGR VAHAHACVDE LLELVVQAVP LPWLVGPFAP ILVERPEPLP DLADLVDEVI GGPDPRWAHL DWPAQQRAWE AEHRDGSGNG DGDRMGVAGD ICEQEPETPS CPVKHTLMPE LDF

Sequence without tag. The proposed Strep-Tag is based on experience s 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.

Characteristics: Key Benefits:

- · Made in Germany from design to production by highly experienced protein experts.
- Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure correct folding and modification.
- 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 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.

#### 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 in several dilutions and is measured against its specific reference buffer.
- · We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

#### Purification:

Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):

- 1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.
- 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.

# **Product Details** >80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot. Purity: Endotoxin Level: Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg) Grade: Crystallography grade **Target Details** PLIN5 Target: Alternative Name: PLIN5 (PLIN5 Products) Perilipin-5 (Lipid storage droplet protein 5), FUNCTION: Lipid droplet-associated protein that Background: 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}. Molecular Weight: 50.8 kDa UniProt: Q00G26 **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

modifications.

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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
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request,
	please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)