Datasheet for ABIN3115513 PTPLAD2 Protein (AA 1-232) (Strep Tag)

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Overview

Quantity:	1 mg
Target:	PTPLAD2
Protein Characteristics:	AA 1-232
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PTPLAD2 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)
Product Details	
Sequence:	MGPLALPAWL QPRYRKNAYL FIYYLIQFCG HSWIFTNMTV RFFSFGKDSM VDTFYAIGLV
	MRLCQSVSLL ELLHIYVGIE SNHLLPRFLQ LTERIIILFV VITSQEEVQE KYVVCVLFVF
	WNLLDMVRYT YSMLSVIGIS YAVLTWLSQT LWMPIYPLCV LAEAFAIYQS LPYFESFGTY
	STKLPFDLSI YFPYVLKIYL MMLFIGMYFT YSHLYSERRD ILGIFPIKKK KM
	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

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• 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 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
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.
	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:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)

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Product Details

Grade:

Crystallography grade

Target Details

Target:	PTPLAD2
Alternative Name:	HACD4 (PTPLAD2 Products)
Background:	Very-long-chain (3R)-3-hydroxyacyl-CoA dehydratase 4 (EC 4.2.1.134) (3-hydroxyacyl-CoA
	dehydratase 4) (HACD4) (Protein-tyrosine phosphatase-like A domain-containing protein
	2),FUNCTION: Catalyzes the third of the four reactions of the long-chain fatty acids elongation
	cycle. This endoplasmic reticulum-bound enzymatic process, allows the addition of two
	carbons to the chain of long- and very long-chain fatty acids/VLCFAs per cycle. This enzyme
	catalyzes the dehydration of the 3-hydroxyacyl-CoA intermediate into trans-2,3-enoyl-CoA,
	within each cycle of fatty acid elongation. Thereby, it participates in the production of VLCFAs
	of different chain lengths that are involved in multiple biological processes as precursors of
	membrane lipids and lipid mediators. {ECO:0000269 PubMed:18554506}.
Molecular Weight:	27.5 kDa
UniProt:	Q5VWC8
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Restrictions:

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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)