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Datasheet for ABIN3117192 PMEPA1 Protein (AA 1-287) (Strep Tag)





Overview

Quantity:	1 mg
Target:	PMEPA1
Protein Characteristics:	AA 1-287
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PMEPA1 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), ELISA, SDS-PAGE (SDS)

Product Details

Sequence:	MHRLMGVNST AAAAAGQPNV SCTCNCKRSL FQSMEITELE FVQIIIIVVV MMVMVVVITC
	LLSHYKLSAR SFISRHSQGR RREDALSSEG CLWPSESTVS GNGIPEPQVY APPRPTDRLA
	VPPFAQRERF HRFQPTYPYL QHEIDLPPTI SLSDGEEPPP YQGPCTLQLR DPEQQLELNR
	ESVRAPPNRT IFDSDLMDSA RLGGPCPPSS NSGISATCYG SGGRMEGPPP TYSEVIGHYP
	GSSFQHQQSS GPPSLLEGTR LHHTHIAPLE SAAIWSKEKD KQKGHPL
	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
	system, a unrerent complexity of the protein could make another tag necessary. In case you
	have a special request, please contact us.
Characteristics:	
Characteristics:	have a special request, please contact us.

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- 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®):
	 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.
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:	PMEPA1
Alternative Name:	PMEPA1 (PMEPA1 Products)
Background:	Protein TMEPAI (Prostate transmembrane protein androgen induced 1) (Solid tumor-
	associated 1 protein) (Transmembrane prostate androgen-induced protein),FUNCTION:
	Functions as a negative regulator of TGF-beta signaling and thereby probably plays a role in ce
	proliferation, differentiation, apoptosis, motility, extracellular matrix production and
	immunosuppression. In the canonical TGF-beta pathway, ZFYVE9/SARA recruits the
	intracellular signal transducer and transcriptional modulators SMAD2 and SMAD3 to the TGF-
	beta receptor. Phosphorylated by the receptor, SMAD2 and SMAD3 then form a heteromeric
	complex with SMAD4 that translocates to the nucleus to regulate transcription. Through
	interaction with SMAD2 and SMAD3, LDLRAD4 may compete with ZFYVE9 and SMAD4 and
	prevent propagation of the intracellular signal (PubMed:20129061, PubMed:24627487). Also
	involved in down-regulation of the androgen receptor (AR), enhancing ubiquitination and
	proteasome-mediated degradation of AR, probably by recruiting NEDD4 (PubMed:18703514).
	{EC0:0000269 PubMed:18703514, EC0:0000269 PubMed:20129061,
	ECO:0000269 PubMed:24627487}.
Molecular Weight:	31.6 kDa
UniProt:	Q969W9
Pathways:	Intracellular Steroid Hormone Receptor Signaling Pathway
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
	Nite strength because on This contains all the marketic community would be a little of

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 Deta	ails
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	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)

Images

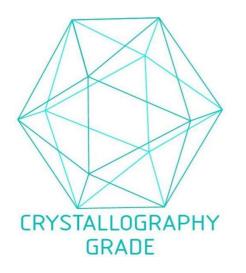


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process

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