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Datasheet for ABIN3116552 PARP16 Protein (AA 1-322) (Strep Tag)





Overview

Quantity:	1 mg
Target:	PARP16
Protein Characteristics:	AA 1-322
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PARP16 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MQPSGWAAAR EAAGRDMLAA DLRCSLFASA LQSYKRDSVL RPFPASYARG DCKDFEALLA
	DASKLPNLKE LLQSSGDNHK RAWDLVSWIL SSKVLTIHSA GKAEFEKIQK LTGAPHTPVP
	APDFLFEIEY FDPANAKFYE TKGERDLIYA FHGSRLENFH SIIHNGLHCH LNKTSLFGEG
	TYLTSDLSLA LIYSPHGHGW QHSLLGPILS CVAVCEVIDH PDVKCQTKKK DSKEIDRRRA
	RIKHSEGGDI PPKYFVVTNN QLLRVKYLLV YSQKPPKRAS SQLSWFSSHW FTVMISLYLL
	LLLIVSVINS SAFQHFWNRA KR
	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

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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 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®):
	 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.

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Product Details	
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade
Target Details	
Target:	PARP16
Alternative Name:	PARP16 (PARP16 Products)
Background:	Protein mono-ADP-ribosyltransferase PARP16 (EC 2.4.2) (ADP-ribosyltransferase diphtheria
	toxin-like 15) (Poly [ADP-ribose] polymerase 16) (PARP-16),FUNCTION: Intracellular mono-ADP
	ribosyltransferase that plays a role in different processes, such as protein translation and
	unfolded protein response (UPR), through the mono-ADP-ribosylation of proteins involved in
	those processes (PubMed:22701565, PubMed:23103912, PubMed:25043379,
	PubMed:34314702). Acts as an inhibitor of protein translation by catalyzing mono-ADP-
	ribosylation of ribosomal subunits, such as RPL14 and RPS6, thereby inhibiting polysome
	assembly and mRNA loading (PubMed:34314702). Mono-ADP-ribosylation of ribosomal
	subunits is promoted by NMNAT2 (PubMed:34314702). Involved in the unfolded protein
	response (UPR) by ADP-ribosylating and activating EIF2AK3 and ERN1, two important UPR
	effectors (PubMed:23103912). May also mediate mono-ADP-ribosylation of karyopherin KPNB
	a nuclear import factor (PubMed:22701565). May not modify proteins on arginine or cysteine
	residues compared to other mono-ADP-ribosyltransferases (PubMed:22701565).
	{EC0:0000269 PubMed:22701565, EC0:0000269 PubMed:23103912,
	ECO:0000269 PubMed:25043379, ECO:0000269 PubMed:34314702}.
Molecular Weight:	36.4 kDa
UniProt:	Q8N5Y8
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
	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.
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Application Details	
	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!
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

Expiry Date: Unlimited (if stored properly)

Store at -80°C.

Images

Storage Comment:



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

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