

Datasheet for ABIN3094398

PARP3 Protein (AA 1-533) (Strep Tag)



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Quantity:	250 μg
Target:	PARP3
Protein Characteristics:	AA 1-533
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PARP3 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details	
Brand:	AliCE®
Sequence:	MAPKPKPWVQ TEGPEKKKGR QAGREEDPFR STAEALKAIP AEKRIIRVDP TCPLSSNPGT
	QVYEDYNCTL NQTNIENNNN KFYIIQLLQD SNRFFTCWNR WGRVGEVGQS KINHFTRLED
	AKKDFEKKFR EKTKNNWAER DHFVSHPGKY TLIEVQAEDE AQEAVVKVDR GPVRTVTKRV
	QPCSLDPATQ KLITNIFSKE MFKNTMALMD LDVKKMPLGK LSKQQIARGF EALEALEEAL
	KGPTDGGQSL EELSSHFYTV IPHNFGHSQP PPINSPELLQ AKKDMLLVLA DIELAQALQA
	VSEQEKTVEE VPHPLDRDYQ LLKCQLQLLD SGAPEYKVIQ TYLEQTGSNH RCPTLQHIWK
	VNQEGEEDRF QAHSKLGNRK LLWHGTNMAV VAAILTSGLR IMPHSGGRVG KGIYFASENS
	KSAGYVIGMK CGAHHVGYMF LGEVALGREH HINTDNPSLK SPPPGFDSVI ARGHTEPDPT
	QDTELELDGQ QVVVPQGQPV PCPEFSSSTF SQSEYLIYQE SQCRLRYLLE VHL
	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 in one-step affinity chromatography
- 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 try to ensure that you receive soluble 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 against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details	
Target:	PARP3
Alternative Name:	PARP3 (PARP3 Products)
Background:	Protein mono-ADP-ribosyltransferase PARP3 (EC 2.4.2) (ADP-ribosyltransferase diphtheria
	toxin-like 3) (ARTD3) (DNA ADP-ribosyltransferase PARP3) (EC 2.4.2) (IRT1) (NAD(+) ADP-
	ribosyltransferase 3) (ADPRT-3) (Poly [ADP-ribose] polymerase 3) (PARP-3) (hPARP-3)
	(Poly[ADP-ribose] synthase 3) (pADPRT-3),FUNCTION: Mono-ADP-ribosyltransferase that
	mediates mono-ADP-ribosylation of target proteins and plays a key role in the response to DNA
	damage (PubMed:16924674, PubMed:20064938, PubMed:21211721, PubMed:21270334,
	PubMed:25043379, PubMed:24598253, PubMed:28447610, PubMed:19354255,
	PubMed:23742272). Mediates mono-ADP-ribosylation of glutamate, aspartate or lysine
	residues on target proteins (PubMed:20064938, PubMed:25043379). In contrast to PARP1 and
	PARP2, it is not able to mediate poly-ADP-ribosylation (PubMed:25043379). Involved in DNA
	repair by mediating mono-ADP-ribosylation of a limited number of acceptor proteins involved in
	chromatin architecture and in DNA metabolism, such as histone H2B, XRCC5 and XRCC6
	(PubMed:16924674, PubMed:24598253). ADP-ribosylation follows DNA damage and appears
	as an obligatory step in a detection/signaling pathway leading to the reparation of DNA strand
	breaks (PubMed:16924674, PubMed:21211721, PubMed:21270334). Involved in single-strand
	break repair by catalyzing mono-ADP-ribosylation of histone H2B on 'Glu-2' (H2BE2ADPr) of
	nucleosomes containing nicked DNA (PubMed:27530147). Cooperates with the XRCC5-XRCC6
	(Ku80-Ku70) heterodimer to limit end-resection thereby promoting accurate NHEJ
	(PubMed:24598253). Suppresses G-quadruplex (G4) structures in response to DNA damage
	(PubMed:28447610). Associates with a number of DNA repair factors and is involved in the
	response to exogenous and endogenous DNA strand breaks (PubMed:16924674,
	PubMed:21211721, PubMed:21270334). Together with APLF, promotes the retention of the
	LIG4-XRCC4 complex on chromatin and accelerate DNA ligation during non-homologous end-

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joining (NHEJ) (PubMed:21211721). May link the DNA damage surveillance network to the

mitotic fidelity checkpoint (PubMed:16924674). Acts as a negative regulator of immunoglobulin

class switch recombination, probably by controlling the level of AICDA /AID on the chromatin

(By similarity). In addition to proteins, also able to ADP-ribosylate DNA: mediates DNA mono-

ADP-ribosylation of DNA strand break termini via covalent addition of a single ADP-ribose moiety to a 5'- or 3'-terminal phosphate residues in DNA containing multiple strand breaks

(PubMed:29361132, PubMed:29520010). {ECO:0000250|UniProtKB:Q3ULW8,

ECO:0000269|PubMed:16924674, ECO:0000269|PubMed:19354255, ECO:0000269|PubMed:20064938, ECO:0000269|PubMed:21211721,

ECO:0000269|PubMed:21270334, ECO:0000269|PubMed:23742272,

Target Details	
	ECO:0000269 PubMed:24598253, ECO:0000269 PubMed:25043379,
	ECO:0000269 PubMed:27530147, ECO:0000269 PubMed:28447610,
	ECO:0000269 PubMed:29361132, ECO:0000269 PubMed:29520010}.
Molecular Weight:	60.1 kDa
UniProt:	Q9Y6F1
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
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	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.

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months