

Datasheet for ABIN3132146 PARP2 Protein (AA 1-559) (Strep Tag)



Overview

Quantity:	250 µg
Target:	PARP2
Protein Characteristics:	AA 1-559
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PARP2 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), ELISA, Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MAPRRQRSGS GRRVLNEAKK VDNGNKATED DSPPGKKMRT CQRKGPMAGG KDADRTKDNR
	DSVKTLLLKG KAPVDPECAA KLGKAHVYCE GDDVYDVMLN QTNLQFNNNK YYLIQLLEDD
	AQRNFSVWMR WGRVGKTGQH SLVTCSGDLN KAKEIFQKKF LDKTKNNWED RENFEKVPGK
	YDMLQMDYAA STQDESKTKE EETLKPESQL DLRVQELLKL ICNVQTMEEM MIEMKYDTKR
	APLGKLTVAQ IKAGYQSLKK IEDCIRAGQH GRALVEACNE FYTRIPHDFG LSIPPVIRTE
	KELSDKVKLL EALGDIEIAL KLVKSERQGL EHPLDQHYRN LHCALRPLDH ESNEFKVISQ
	YLQSTHAPTH KDYTMTLLDV FEVEKEGEKE AFREDLPNRM LLWHGSRLSN WVGILSHGLR
	VAPPEAPITG YMFGKGIYFA DMSSKSANYC FASRLKNTGL LLLSEVALGQ CNELLEANPK
	AQGLLRGKHS TKGMGKMAPS PAHFITLNGS TVPLGPASDT GILNPEGYTL NYNEFIVYSP
	NQVRMRYLLK IQFNFLQLW
	Sequence without tag. The proposed Strep-Tag is based on experience s with the expression

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	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 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 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:

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custom-made

Target Details	
Target:	PARP2
Alternative Name:	Parp2 (PARP2 Products)
Background:	Poly [ADP-ribose] polymerase 2 (PARP-2) (mPARP-2) (EC 2.4.2.30) (ADP-ribosyltransferase
	diphtheria toxin-like 2) (ARTD2) (DNA ADP-ribosyltransferase PARP2) (EC 2.4.2) (NAD(+) ADP-
	ribosyltransferase 2) (ADPRT-2) (Poly[ADP-ribose] synthase 2) (pADPRT-2) (Protein poly-ADP-
	ribosyltransferase PARP2) (EC 2.4.2),FUNCTION: Poly-ADP-ribosyltransferase that mediates
	poly-ADP-ribosylation of proteins and plays a key role in DNA repair (PubMed:10364231,
	PubMed:12065591). Mediates glutamate, aspartate or serine ADP-ribosylation of proteins: the
	ADP-D-ribosyl group of NAD(+) is transferred to the acceptor carboxyl group of target residues
	and further ADP-ribosyl groups are transferred to the 2'-position of the terminal adenosine
	moiety, building up a polymer with an average chain length of 20-30 units (PubMed:12065591).
	Serine ADP-ribosylation of proteins constitutes the primary form of ADP-ribosylation of proteins
	in response to DNA damage (By similarity). Mediates glutamate and aspartate ADP-ribosylation
	of target proteins in absence of HPF1 (By similarity). Following interaction with HPF1, catalyzes
	serine ADP-ribosylation of target proteins, HPF1 conferring serine specificity by completing the
	PARP2 active site (By similarity). PARP2 initiates the repair of double-strand DNA breaks:
	recognizes and binds DNA breaks within chromatin and recruits HPF1, licensing serine ADP-
	ribosylation of target proteins, such as histones, thereby promoting decompaction of chromatin
	and the recruitment of repair factors leading to the reparation of DNA strand breaks (By
	similarity). HPF1 initiates serine ADP-ribosylation but restricts the polymerase activity of PARP2
	in order to limit the length of poly-ADP-ribose chains (By similarity). Specifically mediates
	formation of branched poly-ADP-ribosylation (By similarity). Branched poly-ADP-ribose chains
	are specifically recognized by some factors, such as APLF (By similarity). In addition to
	proteins, also able to ADP-ribosylate DNA: preferentially acts on 5'-terminal phosphates at DNA
	strand breaks termini in nicked duplex (By similarity). {ECO:0000250 UniProtKB:Q9UGN5,
	EC0:0000269 PubMed:10364231, EC0:0000269 PubMed:12065591}.
Molecular Weight:	63.4 kDa
UniProt:	088554
Pathways:	DNA Damage Repair
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

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Application Detai	ls
	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.
	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!
Restrictions:	For Research Use only
Handling	
Format [.]	

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