Datasheet for ABIN3094416

PARP10 Protein (AA 1-1025) (Strep Tag)

1 Image

Go to Product page

Overview

Quantity:	1 mg
Target:	PARP10
Protein Characteristics:	AA 1-1025
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PARP10 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence: MVAMAEAEAG VAVEVRGLPP AVPDELLTLY FENRRRSGGG PVLSWQRLGC GGVLTFREPA DAERVLAQAD HELHGAQLSL RPAPPRAPAR LLLQGLPPGT TPQRLEQHVQ ALLRASGLPV QPCCALASPR PDRALVQLPK PLSEADVRVL EEQAQNLGLE GTLVSLARVP QARAVRVVGD GASVDLLLLE LYLENERRSG GGPLEDLQRL PGPLGTVASF QQWQVAERVL QQEHRLQGSE LSLVPHYDIL EPEELAENTS GGDHPSTQGP RATKHALLRT GGLVTALQGA GTVTMGSGEE PGQSGASLRT GPMVQGRGIM TTGSGQEPGQ SGTSLRTGPM GSLGQAEQVS SMPMGSLEHE GLVSLRPVGL QEQEGPMSLG PVGSAGPVET SKGLLGQEGL VEIAMDSPEQ EGLVGPMEIT MGSLEKAGPV SPGCVKLAGQ EGLVEMVLLM EPGAMRFLQL YHEDLLAGLG DVALLPLEGP DMTGFRLCGA QASCQAAEEF LRSLLGSISC HVLCLEHPGS ARFLLGPEGQ HLLQGLEAQF QCVFGTERLA TATLDTGLEE VDPTEALPVL PGNAHTLWTP DSTGGDQEDV SLEEVRELLA TLEGLDLDGE DWLPRELEEE GPQEQPEEEV TPGHEEEEPV APSTVAPRWL EEEAALQLAL HRSLEPQGQV AEQEEAAALR QALTLSLLEQ PPLEAEEPPD GGTDGKAQLV VHSAFEQDVE

ELDRALRAAL EVHVQEETVG PWRRTLPAEL RARLERCHGV SVALRGDCTI LRGFGAHPAR AARHLVALLA GPWDQSLAFP LAASGPTLAG QTLKGPWNNL ERLAENTGEF QEVVRAFYDT LDAARSSIRV VRVERVSHPL LQQQYELYRE RLLQRCERRP VEQVLYHGTT APAVPDICAH GFNRSFCGRN ATVYGKGVYF ARRASLSVQD RYSPPNADGH KAVFVARVLT GDYGQGRRGL RAPPLRGPGH VLLRYDSAVD CICQPSIFVI FHDTQALPTH LITCEHVPRA SPDDPSGLPG RSPDT

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 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

Product Details

	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)
Grade:	Crystallography grade

Target Details

Target:	PARP10
Alternative Name:	PARP10 (PARP10 Products)
Background:	Protein mono-ADP-ribosyltransferase PARP10 (EC 2.4.2.-) (ADP-ribosyltransferase diphtheria toxin-like 10) (ARTD10) (Poly [ADP-ribose] polymerase 10) (PARP-10),FUNCTION: ADP-ribosyltransferase that mediates mono-ADP-ribosylation of glutamate and aspartate residues on target proteins (PubMed:18851833, PubMed:23332125, PubMed:23474714, PubMed:25043379). In contrast to PARP1 and PARP2, it is not able to mediate poly-ADP-ribosylation (PubMed:18851833). Catalyzes mono-ADP-ribosylation of GSK3B, leading to negatively regulate GSK3B kinase activity (PubMed:23332125). Involved in translesion DNA synthesis in response to DNA damage via its interaction with PCNA (PubMed:24695737). {ECO:0000269|PubMed:18851833, ECO:0000269|PubMed:23332125, ECO:0000269|PubMed:23474714, ECO:0000269|PubMed:24695737, ECO:0000269|PubMed:25043379}.
Molecular Weight:	110.0 kDa
UniProt:	Q53GL7

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. 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:	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)

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

