Datasheet for ABIN3092530

BRIP1 Protein (AA 1-1249) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	BRIP1
Protein Characteristics:	AA 1-1249
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This BRIP1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MSSMWSEYTI GGVKIYFPYK AYPSQLAMMN SILRGLNSKQ HCLLESPTGS GKSLALLCSA LAWQQSLSGK PADEGVSEKA EVQLSCCCAC HSKDFTNNDM NQGTSRHFNY PSTPPSERNG TSSTCQDSPE KTTLAAKLSA KKQASIYRDE NDDFQVEKKR IRPLETTQQI RKRHCFGTEV HNLDAKVDSG KTVKLNSPLE KINSFSPQKP PGHCSRCCCS TKQGNSQESS NTIKKDHTGK SKIPKIYFGT RTHKQIAQIT RELRRTAYSG VPMTILSSRD HTCVHPEVVG NFNRNEKCME LLDGKNGKSC YFYHGVHKIS DQHTLQTFQG MCKAWDIEEL VSLGKKLKAC PYYTARELIQ DADIIFCPYN YLLDAQIRES MDLNLKEQVV ILDEAHNIED CARESASYSV TEVQLRFARD ELDSMVNNNI RKKDHEPLRA VCCSLINWLE ANAEYLVERD YESACKIWSG NEMLLTLHKM GITTATFPIL QGHFSAVLQK EEKISPIYGK EEAREVPVIS ASTQIMLKGL FMVLDYLFRQ NSRFADDYKI AIQQTYSWTN QIDISDKNGL LVLPKNKKRS RQKTAVHVLN FWCLNPAVAF SDINGKVQTI VLTSGTLSPM KSFSSELGVT FTIQLEANHI IKNSQVWVGT IGSGPKGRNL

CATFQNTETF EFQDEVGALL LSVCQTVSQG ILCFLPSYKL LEKLKERWLS TGLWHNLELV KTVIVEPQGG EKTNFDELLQ VYYDAIKYKG EKDGALLVAV CRGKVSEGLD FSDDNARAVI TIGIPFPNVK DLQVELKRQY NDHHSKLRGL LPGRQWYEIQ AYRALNQALG RCIRHRNDWG ALILVDDRFR NNPSRYISGL SKWVRQQIQH HSTFESALES LAEFSKKHQK VLNVSIKDRT NIQDNESTLE VTSLKYSTSP YLLEAASHLS PENFVEDEAK ICVQELQCPK IITKNSPLPS SIISRKEKND PVFLEEAGKA EKIVISRSTS PTFNKQTKRV SWSSFNSLGQ YFTGKIPKAT PELGSSENSA SSPPRFKTEK MESKTVLPFT DKCESSNLTV NTSFGSCPQS ETIISSLKID ATLTRKNHSE HPLCSEEALD PDIELSLVSE EDKQSTSNRD FETEAEDESI YFTPELYDPE DTDEEKNDLA ETDRGNRLAN NSDCILAKDL FEIRTIKEVD SAREVKAEDC IDTKLNGILH IEESKIDDID GNVKTTWINE LELGKTHEIE IKNFKPSPSK NKGMFPGFK

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 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!

Product Details

	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:	BRIP1
Alternative Name:	BRIP1 (BRIP1 Products)
Background:	Fanconi anemia group J protein (EC 3.6.4.12) (BRCA1-associated C-terminal helicase 1) (BRCA1-interacting protein C-terminal helicase 1) (BRCA1-interacting protein 1),FUNCTION: DNA-dependent helicase and 5' to 3' DNA helicase required for the maintenance of chromosomal stability (PubMed:11301010, PubMed:14983014, PubMed:16116421, PubMed:16153896, PubMed:36608669). Acts late in the Fanconi anemia pathway, after FANCD2 ubiquitination (PubMed:14983014, PubMed:16153896). Involved in the repair of DNA double-strand breaks by homologous recombination in a manner that depends on its association with BRCA1 (PubMed:14983014, PubMed:16153896). Involved in the repair of abasic sites at replication forks by promoting the degradation of DNA-protein cross-links: acts by catalyzing unfolding of HMCES DNA-protein cross-link via its helicase activity, exposing the underlying DNA and enabling cleavage of the DNA-protein adduct by the SPRTN metalloprotease (PubMed:16116421, PubMed:36608669). {ECO:0000269|PubMed:11301010, ECO:0000269|PubMed:14983014, ECO:0000269|PubMed:16116421, ECO:0000269|PubMed:16153896, ECO:0000269|PubMed:36608669}.
Molecular Weight:	140.9 kDa
UniProt:	Q9BX63
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 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. 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