

Datasheet for ABIN3092530
BRIP1 Protein (AA 1-1249) (Strep Tag)



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1 Image

Overview

Quantity:	1 mg
Target:	BRIP1
Protein Characteristics:	AA 1-1249
Origin:	Human
Source:	Tobacco (<i>Nicotiana tabacum</i>)
Protein Type:	Recombinant
Purification tag / Conjugate:	This BRIP1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence: MSSMWSEYTI GGVKIYFPYK AYPSQLAMMN SILRGLNSKQ HCLLESPTGS GKSLALLCSA
LAWQQSLSGK PADEGVSEKA EVQLSCCCAC HSKDFTNNDM NQGTSRHFNY PSTPPSERNG
TSSTCQDSPE KTTLAAKLSA KKQASIYRDE NDDFQVEKKR IRPLETTQQI RKRHCFGTEV
HNLDAKVDSG KTVKLNPLE KINSFSPQKP PGHCSRCCCS TKQGNSQESS NTIKKDHTGK
SKIPKIYFGT RTHKQIAQIT RELRRTAYSG VPMTILSSRD HTC VHPEVVG NFN RNEK CME
LLDGKNGKSC YFYHGVHKIS DQHTLQTFQG MCKAWDIEEL VSLGKKL KAC PYYTARELIQ
DADIIFCPYN YLLDAQIRES MDLNLKEQVV ILDEAHNIED CARESASYSV TEVQLRFARD
ELDSMVNNNI RKKDHEPLRA VCCSLINWLE ANAEYLVERD YESACKIWSG NEMLLTLHKM
GITTATFPIL QGHFSAVLQK EEKISPIYGK EEAREVPVIS ASTQIMLKGL FMVLDYLFRQ
NSRFADDYKI AIQQTYSWTN QIDISDKNGL LVL PKNKKRS RQKTAVHVLN FWCLNPAVAF
SDINGKVQTI VLTSGTLSPM KSFSELGVT FTIQLEANHI IKNSQVWVGT IGSGPKGRNL
CATFQNTETF EFQDEVGALL L SVCQTVSQG ILCFLPSYKL LEK LKERWLS TGLWHNLELV

KTVIVEPQGG EKTNFDPELLQ VYYDAIKYKG EKDGALLVAV CRGKVSEGLD FSDDNARAVI
TIGIPFPNVK DLQVELKRQY NDHHSKLRGL LPGRQWYEQ AYRALNQALG RCIRHRNDWG
ALILVDDRFR NNPSRYISGL SKWVRQQIQH HSTFESALES LAEFSKKHKQ VLNVSIKDRT
NIQDNESTLE VTSLKYSTSP YLLEAASHLS PENFVEDEAK ICVQELQCPK IITKNSPLPS
SIISRKEKND PVFLEEAGKA EKIVISRSTS PTFNKQTKRV SWSSFNSLGQ YFTGKIPKAT
PELGSSSENSA SSPPRFKTEK MESKTVLPFT DKCESSNLTV NTSFGSCPQS ETISSLKID
ATLTRKNHSE HPLCSEEALD PDIELSLVSE EDKQSTSNRD FETEAEDESI YFTPELYDPE
DTDEEKNDLA ETRGNRLAN 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 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!

Product Details

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®):

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:

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,

Target Details

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. 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