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Datasheet for ABIN3090443 BRE Protein (AA 1-383) (Strep Tag)

Image



Overview

Quantity:	1 mg
Target:	BRE
Protein Characteristics:	AA 1-383
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This BRE protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MSPEVALNRI SPMLSPFISS VVRNGKVGLD ATNCLRITDL KSGCTSLTPG PNCDRFKLHI
	PYAGETLKWD IIFNAQYPEL PPDFIFGEDA EFLPDPSALQ NLASWNPSNP ECLLLVVKEL
	VQQYHQFQCS RLRESSRLMF EYQTLLEEPQ YGENMEIYAG KKNNWTGEFS ARFLLKLPVD
	FSNIPTYLLK DVNEDPGEDV ALLSVSFEDT EATQVYPKLY LSPRIEHALG GSSALHIPAF
	PGGGCLIDYV PQVCHLLTNK VQYVIQGYHK RREYIAAFLS HFGTGVVEYD AEGFTKLTLL
	LMWKDFCFLV HIDLPLFFPR DQPTLTFQSV YHFTNSGQLY SQAQKNYPYS PRWDGNEMAK
	RAKAYFKTFV PQFQEAAFAN GKL
	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:

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- · 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 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 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.
- 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.

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Product Details		
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:	BRE
Alternative Name:	BABAM2 (BRE Products)
Background:	BRISC and BRCA1-A complex member 2 (BRCA1-A complex subunit BRE) (BRCA1/BRCA2-
	containing complex subunit 45) (Brain and reproductive organ-expressed protein),FUNCTION:
	Component of the BRCA1-A complex, a complex that specifically recognizes 'Lys-63'-linked
	ubiquitinated histones H2A and H2AX at DNA lesions sites, leading to target the BRCA1-BARD
	heterodimer to sites of DNA damage at double-strand breaks (DSBs). The BRCA1-A complex
	also possesses deubiquitinase activity that specifically removes 'Lys-63'-linked ubiquitin on
	histones H2A and H2AX (PubMed:17525341, PubMed:19261746, PubMed:19261749,
	PubMed:19261748). In the BRCA1-A complex, it acts as an adapter that bridges the interaction
	between BABAM1/NBA1 and the rest of the complex, thereby being required for the complex
	integrity and modulating the E3 ubiquitin ligase activity of the BRCA1-BARD1 heterodimer
	(PubMed:21282113, PubMed:19261748). Component of the BRISC complex, a multiprotein
	complex that specifically cleaves 'Lys-63'-linked ubiquitin in various substrates
	(PubMed:19214193, PubMed:24075985, PubMed:25283148, PubMed:26195665). Within the
	BRISC complex, acts as an adapter that bridges the interaction between BABAM1/NBA1 and
	the rest of the complex, thereby being required for the complex integrity (PubMed:21282113).
	The BRISC complex is required for normal mitotic spindle assembly and microtubule
	attachment to kinetochores via its role in deubiquitinating NUMA1 (PubMed:26195665). The
	BRISC complex plays a role in interferon signaling via its role in the deubiquitination of the
	interferon receptor IFNAR1, deubiquitination increases IFNAR1 activity by enhancing its stabili
	and cell surface expression (PubMed:24075985). Down-regulates the response to bacterial
	lipopolysaccharide (LPS) via its role in IFNAR1 deubiquitination (PubMed:24075985). May play
	a role in homeostasis or cellular differentiation in cells of neural, epithelial and germline origins
	May also act as a death receptor-associated anti-apoptotic protein, which inhibits the
	mitochondrial apoptotic pathway. May regulate TNF-alpha signaling through its interactions
	with TNFRSF1A, however these effects may be indirect (PubMed:15465831).
	{ECO:0000269 PubMed:14636569, ECO:0000269 PubMed:19261748,
	EC0:0000269 PubMed:19261749, EC0:0000269 PubMed:24075985,

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Target Details	
	ECO:0000269 PubMed:26195665, ECO:0000305 PubMed:15465831}.
Molecular Weight:	43.6 kDa
UniProt:	Q9NXR7
Pathways:	Positive Regulation of Response to DNA Damage Stimulus
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)

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

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