Datasheet for ABIN3089763

BCAR1 Protein (AA 1-870) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	BCAR1
Protein Characteristics:	AA 1-870
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This BCAR1 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	AliCE®
Sequence:	MNHLNVLAKA LYDNVAESPD ELSFRKGDIM TVLEQDTQGL DGWWLCSLHG RQGIVPGNRL KILVGMYDKK PAGPGPGPPA TPAQPQPGLH APAPPASQYT PMLPNTYQPQ PDSVYLVPTP SKAQQGLYQV PGPSPQFQSP PAKQTSTFSK QTPHHPFPSP ATDLYQVPPG PGGPAQDIYQ VPPSAGMGHD IYQVPPSMDT RSWEGTKPPA KVVVPTRVGQ GYVYEAAQPE QDEYDIPRHL LAPGPQDIYD VPPVRGLLPS QYGQEVYDTP PMAVKGPNGR DPLLEVYDVP PSVEKGLPPS NHHAVYDVPP SVSKDVPDGP LLREETYDVP PAFAKAKPFD PARTPLVLAA PPPDSPPAED VYDVPPPAPD LYDVPPGLRR PGPGTLYDVP RERVLPPEVA DGGVVDSGVY AVPPPAEREA PAEGKRLSAS STGSTRSSQS ASSLEVAGPG REPLELEVAV EALARLQQGV SATVAHLLDL AGSAGATGSW RSPSEPQEPL VQDLQAAVAA VQSAVHELLE FARSAVGNAA HTSDRALHAK LSRQLQKMED VHQTLVAHGQ ALDAGRGGSG ATLEDLDRLV ACSRAVPEDA KQLASFLHGN ASLLFRRTKA TAPGPEGGGT LHPNPTDKTS SIQSRPLPSP PKFTSQDSPD GQYENSEGGW

MEDYDYVHLQ GKEEFEKTQK ELLEKGSITR QGKSQLELQQ LKQFERLEQE VSRPIDHDLA NWTPAQPLAP GRTGGLGPSD RQLLLFYLEQ CEANLTTLTN AVDAFFTAVA TNQPPKIFVA HSKFVILSAH KLVFIGDTLS RQAKAADVRS QVTHYSNLLC DLLRGIVATT KAAALQYPSP SAAQDMVERV KELGHSTQQF RRVLGQLAAA

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!

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.

Product Details

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:	BCAR1
Alternative Name:	BCAR1 (BCAR1 Products)
Background:	Breast cancer anti-estrogen resistance protein 1 (CRK-associated substrate) (Cas scaffolding protein family member 1) (p130cas),FUNCTION: Docking protein which plays a central coordinating role for tyrosine kinase-based signaling related to cell adhesion (PubMed:12832404, PubMed:12432078). Implicated in induction of cell migration and cell branching (PubMed:12432078, PubMed:12832404, PubMed:17038317). Involved in the BCAR3-mediated inhibition of TGFB signaling (By similarity). {ECO:0000250|UniProtKB:Q61140, ECO:0000269|PubMed:12432078, ECO:0000269|PubMed:12832404, ECO:0000269|PubMed:17038317}.
Molecular Weight:	93.4 kDa
UniProt:	P56945
Pathways:	EGFR Signaling Pathway, Neurotrophin Signaling Pathway, CXCR4-mediated Signaling Events, Platelet-derived growth Factor Receptor Signaling

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

Application Details

	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

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