

Datasheet for ABIN3089785

BCAS3 Protein (AA 1-928) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	BCAS3
Protein Characteristics:	AA 1-928
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This BCAS3 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	AliCE®
Sequence:	<p>MNEAMATDSP RRPSRCTGGV VVRPQAVTEQ SYMESVVTFL QDVVPQAYSG TPLTEEKEKI</p> <p>VWVRFENADL NDTSRNLEFH EIHSTGNEPP LLIMIGYSDG MQVWSIPIISG EAQELFSVRH</p> <p>GPIRAARILP APQFGAQKCD NFAEKRPLL G VCKSIGSSGT SPPYCCVDLY SLRTGEMVKS</p> <p>IQFKTPIYDL HCNKRILVVV LQEKIAAFDS CTFTKKFFVT SCYPCPGPNM NPIALGSRWL</p> <p>AYAENKLIRC HQSRGGACGD NIQSYTATVI SAAKTLKSLG TMVGKVVQTQL TGTLPSPGVTE</p> <p>DDVAIHSNSR RSPLVPGIIT VIDTETVGEQ QVLVSESDSDS DGIVAHFPAH EKPVCCMAFN</p> <p>TSGMLLVTTD TLGHDFHVFQ ILTHPWSSSQ CAVHHLYTLH RGETEAKVQD ICFSHDCRWV</p> <p>VVSTLRGTSH VFPINPYGGQ PCVRTHMSPR VVNRMRSRFQK SAGLEEIEQE LTSKQGGRC</p> <p>PVPGLSSSPS GSPLHGKLNQ QDSYNNFTNN NPGNPRLSPL PSLMVMPLA QIKQPMTLGT</p> <p>ITKRTGPYLF GAGCFSIKAP CKVKPPPQIS PSKSMGGEFC VAAIFGTSRS WFANNAGLKR</p> <p>EKDQSKQVVV ESLYIISCYG TLVEHMMMEPR PLSTAPKISD DTPLEMMTSP RASWTLVTRTP</p>

QWNEHQPPFN ANHPLLLAAD AVQYYQFLLA GLVPPGSPGP ITRHGSYDSL ASDHSGQEDE
EWLSQVEIVT HTGPHRRLWM GPQFQFKTIH PSGQTTVISS SSSVLQSHGP SDTPQPLLDF
DTDDLNLNSL RIQPVRSBPV SMPGSSRPVS DRRGVSTVID AASGTFDRSV TLLEVCGSWP
EGFGLRHMSS MEHTEGLRE RLADAMAESP SRDVVGSSTE LQREGSIETL SNSSGSTSGS
IPRNFQGYRS PLPTNESQPL SLFPTGFP

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®).
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Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
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Grade:	custom-made
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Target Details

Target:	BCAS3
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Alternative Name:	BCAS3 (BCAS3 Products)
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Background:	BCAS3 microtubule associated cell migration factor (Breast carcinoma-amplified sequence 3) (GAOB1),FUNCTION: Plays a role in angiogenesis. Participates in the regulation of cell polarity and directional endothelial cell migration by mediating both the activation and recruitment of CDC42 and the reorganization of the actin cytoskeleton at the cell leading edge. Promotes filipodia formation (By similarity). Functions synergistically with PELP1 as a transcriptional coactivator of estrogen receptor-responsive genes. Stimulates histone acetyltransferase activity. Binds to chromatin. Plays a regulatory role in autophagic activity. In complex with PHAF1, associates with the preautophagosomal structure during both non-selective and selective autophagy (PubMed:33499712). Probably binds phosphatidylinositol 3-phosphate (PtdIns3P) which would mediate the recruitment preautophagosomal structures (PubMed:33499712). {ECO:0000250 UniProtKB:Q8CCN5, ECO:0000269 PubMed:17505058, ECO:0000269 PubMed:33499712}.
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Molecular Weight:	101.2 kDa
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UniProt:	Q9H6U6
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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.
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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.
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Application Details

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