

Datasheet for ABIN3130629
SH2D3C Protein (AA 1-854) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	SH2D3C
Protein Characteristics:	AA 1-854
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SH2D3C protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	<p>MTEMPKKTGR KFKFFKFKGL GSLSNLPRSF SLRRSSASAS IRSCPEPDTF EATQDDMVTL PKSPPAYARS SDMYSHMGTM PRPNIKKAQK QQAVQKAQEV SRESHLVSRR LPEPPDLEAA KEAGEGTEAL LEDTAPSAVE VDPMRELEDL TVDTEKEQVP GDVSPERTAA ELEAAGDYVK FSKEYILDS SPEKLHKELE EELKLSSTDL RSHAWYHGRI PREVSETLVQ RNGDFLIRDS LTSLGDYVLT CRWHNQALHF KINKVVVKAG ESYTHIRYLF EQESFDHVPA LVRYHVGSRK AVSEQSGAII YCPVNRTFPL RYLEASYGLS QGSSKTASPA SPSGSKGSHM KRRSITMTDG LTTDKVTRSD GCPNSTSLPH PRDSIRNCAL SMDQIPDLHS PLSPISESPS SPAYSTVTRV HAPSATPSTS AQPASPVARR SSEPQLCPGN TPKPPGESDR APHASPSHTL CKASPSPSLS SYSDPDSGHY CQLQPPVRGS REQAAGETPR KARGSGERQK ELLENGVSDG EWGKTFTVPV VEATSSFNLA TFQSQLIPKE NRPLEVALLR KVKELLSEVD ARTLARHVTK VDCLVARILG VTKEMQTLMG VRWGMELLTL PHGRQLRLDL LERFHTMSIM LAVDILGCTG SAEERAALLH</p>

KTIQLAAELR GTMGNMFSFA AVMGALEMAQ ISRLEQTWMT LRQRHTEGAI LYEKKLKPFL
KSLNEGKEGP PLSNTTFPHV LPFITLLECD SAPAEGPEPW GSTEHGVEVV LAHLEAARTV
AHHGGLYHTN AEVKLQGFQA RPELLEVFST EFQMRLWGS QGANSSQAWR YEKFDKVLTA
LSHKLEPAIR SSEL

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: SH2D3C

Alternative Name: Sh2d3c ([SH2D3C Products](#))

Background: SH2 domain-containing protein 3C (Cas/HEF1-associated signal transducer) (SH2 domain-containing Eph receptor-binding protein 1),FUNCTION: Acts as an adapter protein that mediates cell signaling pathways involved in cellular functions such as cell adhesion and migration, tissue organization, and the regulation of the immune response (PubMed:20505138, PubMed:20881139, PubMed:20956287). Plays a role in integrin-mediated cell adhesion through BCAR1-CRK-RAPGEF1 signaling and activation of the small GTPase RAP1 (By similarity). Promotes cell migration and invasion through the extracellular matrix (PubMed:20881139). Required for marginal zone B-cell development and thymus-independent type 2 immune responses (PubMed:20505138, PubMed:20956287). Mediates migration and adhesion of B cells in the splenic marginal zone via promoting hyperphosphorylation of NEDD9/CASL (PubMed:20505138). Plays a role in CXCL13-induced chemotaxis of B-cells (PubMed:20505138, PubMed:20956287). Plays a role in the migration of olfactory sensory neurons (OSNs) into the forebrain and the innervation of the olfactory bulb by the OSN axons during development (PubMed:20881139). Required for the efficient tyrosine phosphorylation of BCAR1 in OSN axons (PubMed:20881139). {ECO:0000250|UniProtKB:Q8N5H7, ECO:0000269|PubMed:20505138, ECO:0000269|PubMed:20881139, ECO:0000269|PubMed:20956287}., FUNCTION: [Isoform 1]: Important regulator of chemokine-induced, integrin-mediated T lymphocyte adhesion and migration, acting upstream of RAP1 (PubMed:17174122). Required for tissue-specific adhesion of T lymphocytes to peripheral tissues (PubMed:17174122). Required for basal and CXCL2 stimulated serine-threonine phosphorylation of NEDD9 (PubMed:17174122). May be involved in the regulation of T-cell receptor-mediated IL2 production through the activation of the JNK pathway in T-cells (PubMed:12486027). {ECO:0000269|PubMed:12486027, ECO:0000269|PubMed:17174122}., FUNCTION: [Isoform 2]: May be involved in the BCAR1/CAS-mediated JNK activation pathway. {ECO:0000269|PubMed:10692442}.

Target Details

Molecular Weight: 94.3 kDa

UniProt: [Q9QZS8](#)

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.

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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