

Datasheet for ABIN7561842  
**SH2D3C Protein (AA 1-854) (His tag)**



[Go to Product page](#)

## Overview

Quantity:	1 mg
Target:	SH2D3C
Protein Characteristics:	AA 1-854
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SH2D3C protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Purpose:	Custom-made recombinat Sh2d3c Protein expressed in mammalien cells.
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>

## Product Details

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KTIQLAAELR GTMGNMFSFA AVMGALEMAQ ISRLEQTWMT LRQRHTEGAI LYEKKLKPFL  
KSLNEGKEGP PLSNTTFFHV LPFITLLECD SAPAEGPEPW GSTEHGVEVV LAHLEAARTV  
AHHGGLYHTN AEVKLQGFQA RPELLEVFST EFQMRLLWGS QGANSSQAWR YEKFDKVLTA  
LSHKLEPAIR SSEL **Sequence without tag. The proposed Purification-Tag is based on experiences 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.**

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### Characteristics:

#### Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

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### Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

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### Grade:

custom-made

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## Target Details

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### Target:

SH2D3C

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### Alternative Name:

Sh2d3c ([SH2D3C Products](#))

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### 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).

## Target Details

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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}.

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Molecular Weight: 94.3 kDa

UniProt: [Q9QZS8](#)

## Application Details

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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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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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## Handling

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months