

Datasheet for ABIN7551863  
**SH3BP1 Protein (AA 1-701) (His tag)**



[Go to Product page](#)

## Overview

Quantity:	1 mg
Target:	SH3BP1
Protein Characteristics:	AA 1-701
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SH3BP1 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant SH3BP1 Protein expressed in mammalian cells.
Sequence:	MMKRQLHRMR QLAQTGSLGR TPETAEFLGE DLLQVEQRLE PAKRAAHNIH KRLQACLQGG SGADMDKRVK KLPLMALSTT MAESFKELDP DSSMGKALEM SCAIQNQLAR ILAEFEMTLE RDVLQPLSRL SEEELPAILK HKKSLQKLVS DWNTLKSRLS QATKNSGSSQ GLGGSPGSHS HTTMANKVET LKEEEEEELKR KVEQCRDEYL ADLYHFVTKE DSYANYFIRL LEIQADYHRR SLSSLDTALA ELRENHGQAD HSPSMTATHF PRVYGVSLAT HLQELGREIA LPIEACVMML LSEGMKEEGL FRLAAGASVL KRLKQTMASD PHSLEEFCSO PHAVAGALKS YLRELPEPLM TFDLYDDWMR AASLKEPGAR LQALQEVCSR LPPENLSNLR YLMKFLARLA EEQEVNKMT SNIAIVLGN LLWPPEKEGD QAQLDAASVS SIQVVGVEA LIQSADTLFP GDINFVNSGL FSAVTLQDTV SDRLASEELP STAVTPATT PAPAPAPAPA PAPALASAAT KERTESEVPP RPASPKVTRS PPETAAPVED MARRTKRPAP ARPTMPPPQV SGRSSPPAP PLPPGSGSPG TPQALPRLV GSSLRAPTVP PPLPPTPPQP ARRQSRSPA SPSASPGPA SPSVLSNP AQVDLGAATA EGGAPEAISG VPTPPAIPPQ PRPRSLASET N <b>Sequence without tag. The</b>

## Product Details

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**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.**

**Specificity:** If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

**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.

**Purity:** > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

**Grade:** custom-made

## Target Details

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**Target:** SH3BP1

**Alternative Name:** SH3BP1 ([SH3BP1 Products](#))

**Background:** SH3 domain-binding protein 1,FUNCTION: GTPase activating protein (GAP) which specifically converts GTP-bound Rho-type GTPases including RAC1 and CDC42 in their inactive GDP-bound form. By specifically inactivating RAC1 at the leading edge of migrating cells, it regulates the spatiotemporal organization of cell protrusions which is important for proper cell migration (PubMed:21658605). Also negatively regulates CDC42 in the process of actin remodeling and the formation of epithelial cell junctions (PubMed:22891260). Through its GAP activity toward RAC1 and/or CDC42 plays a specific role in phagocytosis of large particles. Specifically recruited by a PI3 kinase/PI3K-dependent mechanism to sites of large particles engagement,

## Target Details

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inactivates RAC1 and/or CDC42 allowing the reorganization of the underlying actin cytoskeleton required for engulfment (PubMed:26465210). It also plays a role in angiogenesis and the process of repulsive guidance as part of a semaphorin-plexin signaling pathway. Following the binding of PLXND1 to extracellular SEMA3E it dissociates from PLXND1 and inactivates RAC1, inducing the intracellular reorganization of the actin cytoskeleton and the collapse of cells (PubMed:24841563). {ECO:0000269|PubMed:21658605, ECO:0000269|PubMed:22891260, ECO:0000269|PubMed:24841563, ECO:0000269|PubMed:26465210}.

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Molecular Weight: 75.7 kDa

UniProt: [Q9Y3L3](#)

## Application Details

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Application Notes: We expect the protein to work for functional studies. 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

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

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months