

Datasheet for ABIN3136683
SH3KBP1 Protein (AA 1-709) (Strep Tag)



[Go to Product page](#)

Overview

Quantity:	250 µg
Target:	SH3KBP1
Protein Characteristics:	AA 1-709
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SH3KBP1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MVEAIVEFDY QAQHDELTI SVGEVITNIR KEDGGWWEQ INGRRGLFPD NfVREIKKDM KKDLLSNKAP EKPMHDVSSG NALLSSETIL RTNKRGERRR RRCQVAFSYL PQNDDELELK VGDIIEVVGE VEEGWWEGLV NGKTGMFPSN FIKELSGESD ELGISQDEQL SKSRPEGFLP ASLLPPAHG AKGKTTFFEGT ILYRAAPGKT EGHRRYSLR ETTGSESDGG DSSSTKSEGA NGTMATAAIQ PKKVKGVGFG DIFKDKPIKL RPRSIEVEND FLPVEKTIGK KLPPATSTPD PSKTEMDSRT KTKDYCKVIF PYEAQNDEL TIKEGDIVTL INKDCIDVGW WEGELNGRRG VFPDNFVKLL PSDFKEG NR PKKPPPSAP VVKQGAGTTE RKHEIKKIPP ERPETLPNRT EAKERPEREP KLDLQKPSVP AIPPKKPRPP KTNSLN PGA LPPRRPERPV GPLTHTRGDS PKIDLASGAL SGILDKDLSR RNSDIDLEGF DSVISSTEKL SHPTTSRPA TGRPPSQSL TSSSLSPDI FDSPPSPEEDK EEHISLAHRG IDVSKKTSKT VTISQVSDNK TSLPPKPGTM AAASSGPASL SSVASSPMSS SLGTAGQRAS SPSLFSTEGK PKMEPAVSSQ AAIEELKMQV

RELRTIIETM KDQQKREIKQ LLELDEEEKK IRLRLQMEVN DIKKALQSK

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.

Purification:

One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).

Product Details

Purity: > 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

Grade: custom-made

Target Details

Target: SH3KBP1

Alternative Name: Sh3kbp1 ([SH3KBP1 Products](#))

Background: SH3 domain-containing kinase-binding protein 1 (Regulator of ubiquitous kinase) (Ruk) (SH3-containing, expressed in tumorigenic astrocytes),FUNCTION: Adapter protein involved in regulating diverse signal transduction pathways. Involved in the regulation of endocytosis and lysosomal degradation of ligand-induced receptor tyrosine kinases, including EGFR and MET/hepatocyte growth factor receptor, through an association with CBL and endophilins. The association with CBL, and thus the receptor internalization, may be inhibited by an interaction with PDCD6IP and/or SPRY2. Involved in regulation of ligand-dependent endocytosis of the IgE receptor. Attenuates phosphatidylinositol 3-kinase activity by interaction with its regulatory subunit (By similarity). May be involved in regulation of cell adhesion, promotes the interaction between TTK2B and PDCD6IP. May be involved in the regulation of cellular stress response via the MAPK pathways through its interaction with MAP3K4. Is involved in modulation of tumor necrosis factor mediated apoptosis. Plays a role in the regulation of cell morphology and cytoskeletal organization. Required in the control of cell shape and migration (By similarity). Has an essential role in the stimulation of B cell activation (By similarity). {ECO:0000250, ECO:0000250|UniProtKB:Q96B97}.

Molecular Weight: 78.2 kDa

UniProt: [Q8R550](#)

Pathways: [EGFR Signaling Pathway](#), [EGFR Downregulation](#)

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

Application Details

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