

Datasheet for ABIN3095430

SH3KBP1 Protein (AA 1-665) (Strep Tag)[Go to Product page](#)**1** Image

Overview

Quantity:	1 mg
Target:	SH3KBP1
Protein Characteristics:	AA 1-665
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SH3KBP1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MVEAIVEFDY QAQHDELTI SVGEIITNIR KEDGGWWEQ INGRRLFPD NFVREIKKEM KKDPLTNKAP EKPLHEVPSG NSLLSSETIL RTNKRGERRR RRCQVAFSYL PQNDDELELK VGDIIEVVG VEEGWWEVL NGKTGMFPSN FIKELSGESD ELGISQDEQL SKSSLRETTG SESDGGDSSS TKSEGANSTV ATAAIQPKKV KGVGFGDIFK DKPIKLRPRS IEVENDFLPV EKTIGKKLPA TTATPDSSKT EMDSRTKSKD YCKVIFPYEA QNDELTIKE GDIVTLINKD CIDVGWWEGE LNGRRGVFPD NFVKLLPPDF EKEGNRPKKP PPPSAPVIKQ GAGTTERKHE IKKIPPERPE MLPNRTEEKE RPEREPKLDL QKPSVPAIPP KKPRPPKTNS LSRPGALPPR RPERVGPLT HTRGDSPKID LAGSSLSGIL DKDLSDRSND IDLEGFDSVV SSTEKLSHPT TSRPKATGRR PPSQSLTSSS LSSPDIFDSP SPEEDKEEHI SLAHRGVDAS KKTSKTVTIS QVSDNKASLP PKPGTMAAGG GGPAPLSSAA PSPLSSSLGT AGHRANSPSL FGTEGKPKME PAASSQAAVE ELRTQVREL RSIETMKDQQ KREIKQLLSE LDEEKIRLR LQMEVNDIKK ALQSK
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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 by multi-step, protein-specific process to ensure correct folding and modification.
- 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 will ensure that you receive a correctly folded 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 in several dilutions and is measured against its specific reference buffer.
- We use the ExPASy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):

1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag

Product Details

- capture material. Eluate fractions are analyzed by SDS-PAGE.
2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade

Target Details

Target:	SH3KBP1
Alternative Name:	SH3KBP1 (SH3KBP1 Products)
Background:	<p>SH3 domain-containing kinase-binding protein 1 (CD2-binding protein 3) (CD2BP3) (Cbl-interacting protein of 85 kDa) (Human Src family kinase-binding protein 1) (HSB-1),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. Has an essential role in the stimulation of B cell activation (PubMed:29636373). {ECO:0000250, ECO:0000269 PubMed:11894095, ECO:0000269 PubMed:11894096, ECO:0000269 PubMed:12177062, ECO:0000269 PubMed:12734385, ECO:0000269 PubMed:12771190, ECO:0000269 PubMed:15090612, ECO:0000269 PubMed:15707590, ECO:0000269 PubMed:16177060, ECO:0000269 PubMed:16256071, ECO:0000269 PubMed:21834987, ECO:0000269 PubMed:29636373}.</p>
Molecular Weight:	73.1 kDa
UniProt:	Q96B97

Target Details

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.

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Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: Unlimited (if stored properly)



Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process