

Datasheet for ABIN3092690  
**FNBP1 Protein (AA 1-617) (Strep Tag)**



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## Overview

Quantity:	250 µg
Target:	FNBP1
Protein Characteristics:	AA 1-617
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This FNBP1 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

## Product Details

Brand:	AliCE®
Sequence:	MSWGTELWDQ FDNLEKHTQW GIDILEKYIK FVKERTEIEL SYAKQLRNLS KKYQPKKNSK EEEEYKYTSC KAFISNLNEM NDYAGQHEVI SENMASQIIV DLARYVQELK QERKSNFHDG RKAQQHIETC WKQLESSKRR FERDCKEADR AQQYFEKMDA DINVTKADVE KARQQAQIRH QMAEDSKADY SSILQKFNHE QHEYYHTHIP NIFQKIQEME ERRIVRMGES MKTYAEVDRQ VIPIIGKCLD GIVKAAESID QKNSQLVIE AYKSGFEPPG DIEFEDYTQP MKRTVSDNSL SNSRGEKPD LKFGGKSKGK LWPFIKKNKL MSLTSPHQP PPPPPASASP SAVPNGPQSP KQQKEPLSHR FNEFMTEKPK IHCFRSLKRG LSLKLGATPE DFSNLPPEQR RKKLQKQVDE LNKEIQKEMD QRDAITKMKD VYLKNPQMGD PASLDHKLAE VSQNIKLRV ETQKFEAWLA EVEGRLPARS EQARRQSGLY DSQNPPTVNN CAQDRESPDG SYTEEQSQES EMKVLATDFD DEFDDEEPLP AIGTCKALYT FEGQNEGTIS VVEGETLYVI EEDKGDGWTR IRRNEDEEGY VPTSIVEVCL DKNKADS

**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.**

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### 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.

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### Purification:

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

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### Purity:

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

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## Product Details

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Grade: custom-made

## Target Details

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Target: FNBP1

Alternative Name: FNBP1 ([FNBP1 Products](#))

Background: Formin-binding protein 1 (Formin-binding protein 17) (hFBP17),FUNCTION: May act as a link between RND2 signaling and regulation of the actin cytoskeleton (By similarity). Required to coordinate membrane tubulation with reorganization of the actin cytoskeleton during the late stage of clathrin-mediated endocytosis. Binds to lipids such as phosphatidylinositol 4,5-bisphosphate and phosphatidylserine and promotes membrane invagination and the formation of tubules. Also enhances actin polymerization via the recruitment of WASL/N-WASP, which in turn activates the Arp2/3 complex. Actin polymerization may promote the fission of membrane tubules to form endocytic vesicles. May be required for the lysosomal retention of FASLG/FASL. {ECO:0000250, ECO:0000269|PubMed:15252009, ECO:0000269|PubMed:16318909, ECO:0000269|PubMed:16326391, ECO:0000269|PubMed:16418535, ECO:0000269|PubMed:17512409}.

Molecular Weight: 71.3 kDa

UniProt: [Q96RU3](#)

## 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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## Application Details

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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.  
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