

Datasheet for ABIN3137353

## B-Cell Linker Protein (BLNK) (AA 1-457) (His tag)



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### 1 Image

#### Overview

Quantity:	1 mg
Target:	B-Cell Linker (BLNK)
Protein Characteristics:	AA 1-457
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This B-Cell Linker protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

#### Product Details

Sequence: MDKLNKITVP ASQKLRLQK MVHDIKNEG GIMDKIKLK VKGPPSVPRR DYALDSPADE  
EEQWSDDFDS DYENPDEHSD SEMYVMPAEE TGDDSYEPPP AEQTRVVHP ALPFTRGEYV  
DNRSSQRHSP PFSKTLPSKP SWPSAKARLA STLPAPNSLQ KPQVPPKPKD LLEDEADYVV  
PVEDNDENYI HPRESSPPPA EKAPMVNRST KPNSSSKHMS PPGTVAGRNS GVVDSKSSLP  
AAPSPLPRAG KKPATPLKTT PVPPLPNASN VCEEKPVPAE RHRGSSHRQD TVQSPVFPPT  
QKPVHQKPVP LPRFPEAGSP AADGPFHSFP FNSTFADQEA ELLGKPWYAG ACDRKSAAEA  
LHRSNKDGsf LIRKSSGHDS KQPYTLVAFF NKRvYNIPVR FIEATKQYAL GKkKNGEEYF  
GSVVEIVNSH QHNPLVLIDS QNNTKDSTRL KYAVKVS

**Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.**

Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Mouse Blnk Protein (raised in Insect Cells) purified by multi-step, protein-specific process to

## Product Details

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ensure crystallization grade.

- 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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

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.

The concentration of the protein is calculated using its specific absorption coefficient. We use the ExPASy's protparam tool to determine the absorption coefficient of each protein.

Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells: <ol style="list-style-type: none"><li>1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.</li><li>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.</li></ol>
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

## Target Details

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Target:	B-Cell Linker (BLNK)
Alternative Name:	Blnk ( <a href="#">BLNK Products</a> )

## Target Details

**Background:** Functions as a central linker protein, downstream of the B-cell receptor (BCR), bridging the SYK kinase to a multitude of signaling pathways and regulating biological outcomes of B-cell function and development. Plays a role in the activation of ERK/EPHB2, MAP kinase p38 and JNK. Modulates AP1 activation. Important for the activation of NF-kappa-B and NFAT. Plays an important role in BCR-mediated PLCG1 and PLCG2 activation and Ca(2+) mobilization and is required for trafficking of the BCR to late endosomes. However, does not seem to be required for pre-BCR-mediated activation of MAP kinase and phosphatidylinositol 3 (PI3) kinase signaling. May be required for the RAC1-JNK pathway. Plays a critical role in orchestrating the pro-B cell to pre-B cell transition. May play an important role in BCR-induced B-cell apoptosis. {ECO:0000269|PubMed:12761551, ECO:0000269|PubMed:18369315, ECO:0000269|PubMed:9705962}.

**Molecular Weight:** 51.6 kDa Including tag.

**UniProt:** [Q9QUN3](#)

**Pathways:** [BCR Signaling](#)

## 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:** Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.

**Restrictions:** For Research Use only

## Handling

**Format:** Liquid

**Buffer:** 100 mM NaCl, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.

**Handling Advice:** Avoid repeated freeze-thaw cycles.

**Storage:** -80 °C

**Storage Comment:** Store at -80°C.

## Handling

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Expiry Date: Unlimited (if stored properly)

## Images

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