Datasheet for ABIN3137235

NFKBIZ Protein (AA 1-728) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	NFKBIZ
Protein Characteristics:	AA 1-728
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This NFKBIZ protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MIVDKLLDDS RGGEGLLDAA GDCGLMTSPL NLAYFYGASP PSAPGAGDTG YLSAVPSAPG SPGSDSSDFS STSSVSSCGA VESRPRGGAR AERPQVEPHM GVGRQQRGPF QGVRVKNSVK ELLLHIRSNK QKASGQPVDE FKTQSVNIEQ LTDLKSAVSA VGKRKGPDPL SDGPVCKRPA LLPSHFVTSP QTPTPGESME DVRHSESKLD SSAALLQNII NIKNECNPVS LNTVQVSWMS PTVPQNSPRD QCQDFHGGQA FSPPQKYQPF QVSGSPQMMD QASMYQYSPQ TQNMQQPPPL PPQQQHQQNY PHNSPLQFSP YSRMSQSPKY DSNLFDTHEP QFCTGQSFVS LLTGPGEPES LAVPVPAPTS IPPQTETQLQ TFSLMPSNAC EAVVGVHDVG SHSLGTSLSL QNIMGSPMNT TQLGKSFFQW QVEQEESKLA NIPQDQFLAR DGDGDTFLHI AVAQGRRALS YVLARKMNAL HMLDIKEHNG QSAFQVAVAA NQHLIVQDLV NLGAQVNTTD CWGRTPLHVC AEKGHSQVLQ AIQKGAVRSN QFVDLEATNY DGLTPLHCAV VAHNAVVHEL QRNRQSHSPE VQDLLLRNKS LVDTIKCLIQ MGAAVEAKDR KSGRTALHLA AEEANLELIR LFLELPSCLS FVNAKAYNGN

TALHVAASLQ YRVTQLDAVR LLMRKGADPS TRNLENEQPV HLVPDGPVGE QIRRILKGKS IQQRAPPY

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:	NFKBIZ
Alternative Name:	Nfkbiz (NFKBIZ Products)
Background:	NF-kappa-B inhibitor zeta (I-kappa-B-zeta) (IkB-zeta) (IkappaBzeta) (IL-1 inducible nuclear ankyrin-repeat protein) (INAP) (Molecule possessing ankyrin repeats induced by lipopolysaccharide) (MAIL),FUNCTION: Involved in regulation of NF-kappa-B transcription factor complexes (PubMed:11356851, PubMed:15241416, PubMed:15618216, PubMed:17447895). Inhibits NF-kappa-B activity without affecting its nuclear translocation upon stimulation (PubMed:11356851, PubMed:15241416, PubMed:15618216, PubMed:17447895). Inhibits DNA-binding of RELA and NFKB1/p50, and of the NF-kappa-B p65-p50 heterodimer and the NF-kappa-B p50-p50 homodimer (PubMed:11356851, PubMed:15241416, PubMed:15618216, PubMed:17447895). Seems also to activate NF-kappa-B-mediated transcription (PubMed:11356851, PubMed:15241416, PubMed:15618216, PubMed:17447895). In vitro, upon association with NFKB1/p50 has transcriptional activation activity and, together with NFKB1/p50 and RELA, is recruited to LCN2 promoters (By similarity). Promotes transcription of LCN2 and DEFB4 (By similarity). Is recruited to IL-6 promoters and activates IL-6 but decreases TNF-alpha production in response to LPS (PubMed:11086164, PubMed:25107474). Seems to be involved in the induction of inflammatory genes activated through TLR/IL-1 receptor signaling (PubMed:11086164, PubMed:25107474). Involved in the induction of T helper 17 cells (Th17) differentiation upon recognition of antigen by T cell antigen receptor (TCR) (PubMed:25282160). {ECO:0000250|UniProtKB:Q9BYH8, ECO:0000269|PubMed:11086164, ECO:0000269|PubMed:11356851, ECO:0000269|PubMed:15241416, ECO:0000269|PubMed:15618216, ECO:0000269|PubMed:17447895, ECO:0000269|PubMed:25107474, ECO:0000269|PubMed:25282160}.
Molecular Weight:	79.0 kDa
UniProt:	Q9EST8
Pathways:	NF-kappaB Signaling

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies

Application Details

	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 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!
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