Datasheet for ABIN3093870

MIB1 Protein (AA 1-1006) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	MIB1
Protein Characteristics:	AA 1-1006
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MIB1 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Brand:	AliCE®
Sequence:	MSNSRNNRVM VEGVGARVVR GPDWKWGKQD GGEGHVGTVR SFESPEEVVV VWDNGTAANY RCSGAYDLRI LDSAPTGIKH DGTMCDTCRQ QPIIGIRWKC AECTNYDLCT VCYHGDKHHL RHRFYRITTP GSERVLLESR RKSKKITARG IFAGARVVRG VDWQWEDQDG GNGRRGKVTE IQDWSASSPH SAAYVLWDNG AKNLYRVGFE GMSDLKCVQD AKGGSFYRDH CPVLGEQNGN RNPGGLQIGD LVNIDLDLEI VQSLQHGHGG WTDGMFETLT TTGTVCGIDE DHDIVVQYPS GNRWTFNPAV LTKANIVRSG DAAQGAEGGT SQFQVGDLVQ VCYDLERIKL LQRGHGEWAE AMLPTLGKVG RVQQIYSDSD LKVEVCGTSW TYNPAAVSKV ASAGSAISNA SGERLSQLLK KLFETQESGD LNEELVKAAA NGDVAKVEDL LKRPDVDVNG QCAGHTAMQA ASQNGHVDIL KLLLKQNVDV EAEDKDGDRA VHHAAFGDEG AVIEVLHRGS ADLNARNKRR QTPLHIAVNK GHLQVVKTLL DFGCHPSLQD SEGDTPLHDA ISKKRDDILA VLLEAGADVT ITNNNGFNAL HHAALRGNPS AMRVLLSKLP RPWIVDEKKD DGYTALHLAA LNNHVEVAEL LVHQGNANLD

IQNVNQQTAL HLAVERQHTQ IVRLLVRAGA KLDIQDKDGD TPLHEALRHH TLSQLRQLQD MQDVGKVDAA WEPSKNTLIM GLGTQGAEKK SAASIACFLA ANGADLSIRN KKGQSPLDLC PDPNLCKALA KCHKEKVSGQ VGSRSPSMIS NDSETLEECM VCSDMKRDTL FGPCGHIATC SLCSPRVKKC LICKEQVQSR TKIEECVVCS DKKAAVLFQP CGHMCACENC ANLMKKCVQC RAVVERRVPF IMCCGGKSSE DATDDISSGN IPVLQKDKDN TNVNADVQKL QQQLQDIKEQ TMCPVCLDRL KNMIFLCGHG TCQLCGDRMS ECPICRKAIE RRILLY

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.

Product Details

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

Target Details

Target:	MIB1
Alternative Name:	MIB1 (MIB1 Products)
Background:	E3 ubiquitin-protein ligase MIB1 (EC 2.3.2.27) (DAPK-interacting protein 1) (DIP-1) (Mind bomb homolog 1) (RING-type E3 ubiquitin transferase MIB1) (Zinc finger ZZ type with ankyrin repeat domain protein 2),FUNCTION: E3 ubiquitin-protein ligase that mediates ubiquitination of Delta receptors, which act as ligands of Notch proteins. Positively regulates the Delta-mediated Notch signaling by ubiquitinating the intracellular domain of Delta, leading to endocytosis of Delta receptors. Probably mediates ubiquitination and subsequent proteasomal degradation of DAPK1, thereby antagonizing anti-apoptotic effects of DAPK1 to promote TNF-induced apoptosis (By similarity). Involved in ubiquitination of centriolar satellite CEP131, CEP290 and PCM1 proteins and hence inhibits primary cilium formation in proliferating cells. Mediates 'Lys-63'-linked polyubiquitination of TBK1, which probably participates in kinase activation. {ECO:0000250, ECO:0000269|PubMed:24121310}., FUNCTION: (Microbial infection) During adenovirus infection, mediates ubiquitination of Core-capsid bridging protein. This allows viral genome delivery into nucleus for infection. {ECO:0000269|PubMed:31851912}.
Molecular Weight:	110.1 kDa
UniProt:	Q86YT6
Pathways:	SARS-CoV-2 Protein Interactome, The Global Phosphorylation Landscape of SARS-CoV-2 Infection

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.

Application Details

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