



[Go to Product page](#)

Datasheet for ABIN3093870

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

1 Image

Overview

Quantity:	1 mg
Target:	MIB1
Protein Characteristics:	AA 1-1006
Origin:	Human
Source:	Tobacco (<i>Nicotiana tabacum</i>)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MIB1 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Sequence: MSNSRNNRVM VEGVGARVVR GPDWKWKGQD GGEGHVGTVR SFESPEEVVV VWDNGTAANY
RCSGAYDLRI LDSAPTGIKH DGTMCDCRQ QPIIGIRWKC AECTNYDLCT VCYHGDKHHL
RHRFYRITTP GSERVLLES RSKKITARG IFAGARVVRG VDWQWEDQDG GNGRRGKVT
IQDWSASSPH SAAYVLWDNG AKNLYRVGFE GMSDLKCVQD AKGGSFYRDH CPVLGEQNGN
RNPGLQIGD LVNIDLLEI VQSLQHGHHG WTDGMFETLT TTGTVCIDE DHDIVVQYPS
GNRWTFNPAV LTKANIVRSG DAAQGAEGGT SQFQVGLVQ VCYDLERIKL LQRGHGEWAE
AMLPTLGKVG RVQQIYSDSD LKVEVCGTSW TYNPAAVSKV ASAGSAISNA SGERLSQLLK
KLFETQESGD LNEELVKA AAA NGDVAKVEDL LKRDPVDVNG QCAGHTAMQA ASQNGHVDIL
KLLLKQNV DV EAEDKGDRA VHHA AFGDEG AVIEVLHRGS ADLNARNKRR QTPLHIAV NK
GHLQVVK TLL DFGCHPSLQD SEGDTPLHDA ISKKRDDILA VLLEAGADVT ITNNGFNAL
HHAALRG NPS AMRVLLSKLP RPWIVDEKGD DGYTALHLAA LNNHVEVAEL LVHQGNANLD
IQNVNQQTAL HLAVERQHTQ IVRLLVRAGA KLDIQDKDGD TPLHEALRHH TLSQLRQLQD

MQDVGKVDAA WEPSKNTLIM GLGTQGAEEK 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 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

Product Details

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®): <ol style="list-style-type: none">1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag 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:	MIB1
Alternative Name:	MIB1 (MIB1 Products)
Background:	<p>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}.</p>
Molecular Weight:	110.1 kDa
UniProt:	Q86YT6

Target Details

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.

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. 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