Datasheet for ABIN3137468

TFEB Protein (AA 1-475) (His tag)

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1 Image

Overview

Quantity:	1 mg
Target:	TFEB
Protein Characteristics:	AA 1-475
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TFEB protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	MASRIGLRMQ LMREQAQQEE QRERMQQQAV MHYMQQQQQQ QQQLGGPPTP AINTPVHFQS PPPVPGEVLK VQSYLENPTS YHLQQSQHQK VREYLSETYG NKFAAHVSPA QGSPKPAPAA SPGVRAGHVL STSAGNSAPN SPMAMLHISS NPEKEFDDVI DNIMRLDSVL GYINPEMQMP NTLPLSSSHL NVYSGDPQVT ASMVGVTSSS CPADLTQKRE LTDAESRALA KERQKKDNHN LIERRRRFNI NDRIKELGML IPKANDLDVR WNKGTILKAS VDYIRRMQKD LQKSRELENH SRRLEMTNKQ LWLRIQELEM QARVHGLPTT SPSGVNMAEL AQQVVKQELP SEDGPGEALM LGPEVPEPEQ MPALPPQAPL PSAAQPQSPF HHLDFSHGLS FGGGGDEGPT GYPDTLGTEH GSPFPNLSKK DLDLMLLDDS LLPLASDPLF STMSPEASKA SSRRSSFSME EGDVL **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 Tfeb Protein (raised in Insect Cells) purified by multi-step, protein-specific process to

Product Details

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 receival 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: 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. 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:	>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

Target:	TFEB
Alternative Name:	Tfeb (TFEB Products)

Target Details

Background:	Transcription factor that specifically recognizes and binds E-box sequences (5'-CANNTG-3'). Efficient DNA-binding requires dimerization with itself or with another MiT/TFE family member such as TFE3 or MITF. In association with TFE3, activates the expression of CD40L in T-cells, thereby playing a role in T-cell-dependent antibody responses in activated CD4(+) T-cells and thymus-dependent humoral immunity. Specifically recognizes and binds the CLEAR-box sequence (5'-GTCACGTGAC-3') present in the regulatory region of many lysosomal genes, leading to activate their expression. It thereby plays a central role in expression of lysosomal genes. Acts as a positive regulator of autophagy by promoting expression of genes involved in autophagy. Specifically recognizes the gamma-E3 box, a subset of E-boxes, present in the heavy-chain immunoglobulin enhancer. Plays a role in the signal transduction processes required for normal vascularization of the placenta. {ECO:0000269|PubMed:16936731, ECO:0000269|PubMed:9806910}.
Molecular Weight:	53.6 kDa Including tag.
UniProt:	Q9R210

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 gurantee 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.
Expiry Date:	Unlimited (if stored properly)

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

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