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Datasheet for ABIN3136016 MFN2 Protein (AA 1-604) (His tag)

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Overview

Quantity:	1 mg
Target:	MFN2
Protein Characteristics:	AA 1-604
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MFN2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	MSLLFSRCNS IVTVKKDKRH MAEVNASPLK HFVTAKKKIN GIFEQLGAYI QESASFLEDT
	HRNTELDPVT TEEQVLDVKG YLSKVRGISE VLARRHMKVA FFGRTSNGKS TVINAMLWDK
	VLPSGIGHTT NCFLRVGGTD GHEAFLLTEG SEEKKSVKTV NQLAHALHQD EQLHAGSMVS
	VMWPNSKCPL LKDDLVLMDS PGIDVTTELD SWIDKFCLDA DVFVLVANSE STLMQTEKQF
	FHKVSERLSR PNIFILNNRW DASASEPEYM EEVRRQHMER CTSFLVDELG VVDRAQAGDR
	IFFVSAKEVL SARVQKAQGM PEGGGALAEG FQVRMFEFQN FERQFEECIS QSAVKTKFEQ
	HTVRAKQIAE AVRLIMDSLH IAAQEQRVYC LEMREERQDR LRFIDKQLEL LAQDYKLRIK
	QITEEVERQV STAMAEEIRR LSVLVDEYQM DFHPSPVVLK VYKNELHRHI EEGLGRNLSD
	RCSTAIASSL QTMQQDMIDG LKPLLPVSMR NQIDMLVPRQ CFSLSYDLNC DKLCADFQED
	IEFHFSLGWT MLVNRFLGPK NSRRALLGYS DQVQRPLPLT PANPSMPPLP QSSLTQEELM VSMV
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.

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Product Details	
Characteristics:	 Made in Germany - from design to production - by highly experienced protein experts. Mouse Mfn2 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to 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:
	 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.
	 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

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Target Details		
Target:	MFN2	
Alternative Name:	Mfn2 (MFN2 Products)	
Background:	Essential transmembrane GTPase, which mediates mitochondrial fusion. Fusion of mitochondria occurs in many cell types and constitutes an important step in mitochondria morphology, which is balanced between fusion and fission. MFN2 acts independently of the cytoskeleton. It therefore plays a central role in mitochondrial metabolism and may be associated with obesity and/or apoptosis processes. Overexpression induces the formation of mitochondrial networks. Plays an important role in the regulation of vascular smooth muscle cell proliferation. Involved in the clearance of damaged mitochondria via selective autophagy (mitophagy). Is required for PARK2 recruitment to dysfunctional mitochondria. Involved in the control of unfolded protein response (UPR) upon ER stress including activation of apoptosis and autophagy during ER stress. Acts as an upstream regulator of EIF2AK3 and suppresses EIF2AK3 activation under basal conditions. {EC0:0000269 PubMed:15322553, EC0:0000269 PubMed:23620051, EC0:0000269 PubMed:23921556}.	
Molecular Weight:	69.8 kDa Including tag.	
UniProt:	Q80U63	
Pathways:	Skeletal Muscle Fiber Development	
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.	

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Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images



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