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MFN2 Protein (AA 1-604) (His tag)



Image



Overview

Quantity:	1 mg
Target:	MFN2
Protein Characteristics:	AA 1-604
Origin:	Human
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 IVTVKKNKRH MAEVNASPLK HFVTAKKKIN GIFEQLGAYI QESATFLEDT
YRNAELDPVT TEEQVLDVKG YLSKVRGISE VLARRHMKVA FFGRTSNGKS TVINAMLWDK
VLPSGIGHTT NCFLRVEGTD GHEAFLLTEG SEEKRSAKTV NQLAHALHQD KQLHAGSLVS
VMWPNSKCPL LKDDLVLMDS PGIDVTTELD SWIDKFCLDA DVFVLVANSE STLMQTEKHF
FHKVSERLSR PNIFILNNRW DASASEPEYM EEVRRQHMER CTSFLVDELG VVDRSQAGDR
IFFVSAKEVL NARIQKAQGM PEGGGALAEG FQVRMFEFQN FERRFEECIS QSAVKTKFEQ
HTVRAKQIAE AVRLIMDSLH MAAREQQVYC EEMREERQDR LKFIDKQLEL LAQDYKLRIK
QITEEVERQV STAMAEEIRR LSVLVDDYQM DFHPSPVVLK VYKNELHRHI EEGLGRNMSD
RCSTAITNSL QTMQQDMIDG LKPLLPVSVR SQIDMLVPRQ CFSLNYDLNC DKLCADFQED
IEFHFSLGWT MLVNRFLGPK NSRRALMGYN DQVQRPIPLT PANPSMPPLP QGSLTQEEFM
VSMV

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a

Product Details special request, please contact us. Characteristics: · Made in Germany - from design to production - by highly experienced protein experts. · Human 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: 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:	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. {ECO:0000269 PubMed:11181170,
	ECO:0000269 PubMed:11950885, ECO:0000269 PubMed:15322553,
	ECO:0000269 PubMed:23620051, ECO:0000269 PubMed:23921378}.
Molecular Weight:	70.0 kDa Including tag.
UniProt:	095140
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:	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

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

Images

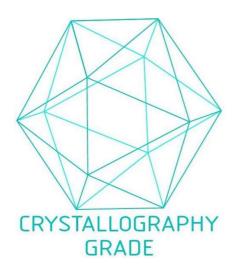


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process