antibodies

Datasheet for ABIN3124567 MFN1 Protein (AA 630-741) (His tag)

Image



Overview

Quantity:	1 mg
Target:	MFN1
Protein Characteristics:	AA 630-741
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MFN1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)
Product Details	
Sequence:	RLTWTTRAKE RAFKQQFVNY ATEKLQMIVS FTSANCSHQV QQEMATTFAR LCQQVDVTQK
	HLEEEIARLS KEIDQLEKIQ NNSKLLRNKA VQLESELENF SKQFLHPSSG ES
	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 Mfn1 Protein (raised in E. Coli) purified by multi-step, protein-specific process to
	ensure crystallization grade.
	ensure crystallization grade.
	ensure crystallization grade.State-of-the-art algorithm used for plasmid design (Gene synthesis).
	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

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Product Details	
	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 bacterial culture:
	 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:	Endotoxin has not been removed. Please contact us if you require endotoxin removal.
Grade:	Crystallography grade

Target Details

Target:	MFN1
Alternative Name:	Mfn1 (MFN1 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. MFN1 acts independently of the
	cytoskeleton. Overexpression induces the formation of mitochondrial networks.
	{EC0:0000269 PubMed:12527753, EC0:0000269 PubMed:15297672}.

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Target Details		
Molecular Weight:	14.0 kDa Including tag.	
UniProt:	Q811U4	
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)	

Images

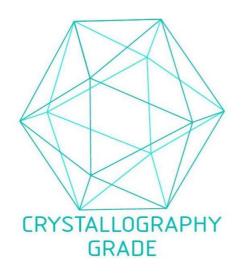


Image 1. "Crystallography Grade" protein due to multi-step,

protein-specific purification process

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