Datasheet for ABIN3116328

MFN1 Protein (AA 1-741) (Strep Tag)

Go to Product page

Overview

Quantity:	250 µg
Target:	MFN1
Protein Characteristics:	AA 1-741
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MFN1 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	AliCE®
Sequence:	MAEPVSPLKH FVLAKKAITA IFDQLLEFVT EGSHFVEATY KNPELDRIAT EDDLVEMQGY KDKLSIIGEV LSRRHMKVAF FGRTSSGKSS VINAMLWDKV LPSGIGHITN CFLSVEGTDG DKAYLMTEGS DEKKSVKTVN QLAHALHMDK DLKAGCLVRV FWPKAKCALL RDDLVLVDSP GTDVTTELDS WIDKFCLDAD VFVLVANSES TLMNTEKHFF HKVNERLSKP NIFILNNRWD ASASEPEYME DVRRQHMERC LHFLVEELKV VNALEAQNRI FFVSAKEVLS ARKQKAQGMP ESGVALAEGF HARLQEFQNF EQIFEECISQ SAVKTKFEQH TIRAKQILAT VKNIMDSVNL AAEDKRHYSV EEREDQIDRL DFIRNQMNLL TLDVKKKIKE VTEEVANKVS CAMTDEICRL SVLVDEFCSE FHPNPDVLKI YKSELNKHIE DGMGRNLADR CTDEVNALVL QTQQEIIENL KPLLPAGIQD KLHTLIPCKK FDLSYNLNYH KLCSDFQEDI VFRFSLGWSS LVHRFLGPRN AQRVLLGLSE PIFQLPRSLA STPTAPTTPA TPDNASQEEL MITLVTGLAS VTSRTSMGII IVGGVIWKTI GWKLLSVSLT MYGALYLYER LSWTTHAKER AFKQQFVNYA TEKLRMIVSS

TSANCSHQVK QQIATTFARL CQQVDITQKQ LEEEIARLPK EIDQLEKIQN NSKLLRNKAV QLENELENFT KQFLPSSNEE S

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 in one-step affinity chromatography
- 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 try to ensure that you receive soluble 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 against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:

One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).

Product Details

Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	MFN1
Alternative Name:	MFN1 (MFN1 Products)
Background:	Mitofusin-1 (EC 3.6.5.-) (Fzo homolog) (Transmembrane GTPase MFN1),FUNCTION: Mitochondrial outer membrane GTPase that mediates mitochondrial clustering and fusion (PubMed:12475957, PubMed:12759376, PubMed:27920125, PubMed:28114303). Membrane clustering requires GTPase activity (PubMed:27920125). It may involve a major rearrangement of the coiled coil domains (PubMed:27920125, PubMed:28114303). Mitochondria are highly dynamic organelles, and their morphology is determined by the equilibrium between mitochondrial fusion and fission events (PubMed:12475957, PubMed:12759376). Overexpression induces the formation of mitochondrial networks (in vitro) (PubMed:12759376). Has low GTPase activity (PubMed:27920125, PubMed:28114303). {ECO:0000269|PubMed:12475957, ECO:0000269|PubMed:12759376, ECO:0000269|PubMed:27920125, ECO:0000269|PubMed:28114303}.
Molecular Weight:	84.2 kDa
UniProt:	Q8IWA4

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

Application Details

	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. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol **Might differ depending on protein.**
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months