

Recombinant Human MFN2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. MFN2-5029H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MFN2 MS Standard C13 and N15-labeled recombinant protein (NP_055689) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a mitochondrial membrane protein that participates in mitochondrial fusion and contributes to the maintenance and operation of the mitochondrial network. This protein is involved in the regulation of vascular smooth muscle cell proliferation, and it may play a role in the pathophysiology of obesity. Mutations in this gene cause Charcot-Marie-Tooth disease type 2A2, and hereditary motor and sensory neuropathy VI, which are both disorders of the peripheral nervous system. Defects in this gene have also been associated with early-onset stroke. Two transcript variants encoding the same protein have been identified.
Molecular Mass	86.4 kDa
AA Sequence	MSLLFSRCNSIVTVKKNKRHMAEVDNASPLKHFVTAKKKINGIFEQLGAYIQESATFLE DTYRNAELDPVTTEEQVLDVKGYLSKVRGISEVLARRHMKVAFFGRTSNGKSTVINA MLWDKVLPSGIGHTTNCFLRVEGTDGHEAFLLTEGSEEKRSAKTVNQLAHALHQDK QLHAGSLVSVMWPNSKCPDLLKDDLVLMDSPGIDVTTELD SWIDKFCLDADVFVLVAN SESTLMQTEKHFFHKVSRLSRPNIFILNNRWDASASEPEYMEEVRRQHMERCCTSF

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LVDELGVVDRSQAGDRIFFVSAKEVLNARIQKAQGMPEGGGALAEQFQVRMFQFN
 FERRFEECISQSAVKTKEQHTVRAKQIAEAVRLIMDSLHMAAREQQVYCEEMREE
 RQDRLKFIDKQLELLAQDYKLRIKQITEEVERQVSTAMAEIIRLSVLVDDYQMDFHP
 SPVVLKVKYKNEHRHIEEGLGRNMSDR CSTAITNSLQTMQQDMIDGLKPLLPVSVRS
 QIDMLVPRQCFSLNYDLNCDKLCADFQEDIEFHSLGWTMLVNRFLGPKNSRRALM
 GYNDQVQRPIPLTPANPSMPPLPQGS LTQEEFMVSMVTGLASLTSRTSMGILVGG
 VVWKAVGWRLIALSFGLYGLLYVYERLTWTTKAKERAFKRQFVEHASEKLQLVISYT
 GSNCSHQVQQELSGTFAHLCQQVDVTRENLEQEIAAMNKKIEVLDSLQSKAKLLRN
 KAGWLDSELNMFTHQYLQPSRTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	MFN2 mitofusin 2 [Homo sapiens (human)]
Official Symbol	MFN2
Synonyms	MFN2; mitofusin 2; mitofusin-2; CMT2A2; CPRP1; KIAA0214; MARF; hyperplasia suppressor; transmembrane GTPase MFN2; mitochondrial assembly regulatory factor; HSG; CMT2A;

Gene ID 9927

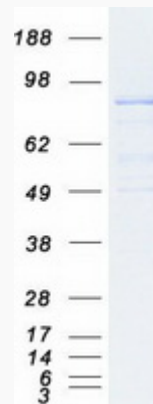
mRNA Refseq NM_014874

Protein Refseq NP_055689

MIM 608507

UniProt ID O95140

SDS-PAGE



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