

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	MSLLFSRCNSIVTVKKNKRHMAEVNASPLKHFVTAKKKINGIFEQLGAYIQESATFLE DTYRNAELDPVTTEEQVLDVKGYLSKVRGISEVLARRHMKVAFFGRTSNGKSTVINA MLWDKVLPSGIGHTTNCFLRVEGTDGHEAFLLTEGSEEKRSAKTVNQLAHALHQDK QLHAGSLVSVMWPNSKCPLLKDDLVLMDSPGIDVTTELD SWIDKFCLDADVFVLVAN SESTLMQTEKHFFHKVSRRLSRPNIFILNNRWDASASEPEYMEEVRRQHMERCCTSF

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LVDELGVVDRSQAGDRIFVSAKEVLNARIQKAQGMPEGGGALAEGFQVRMFEFQN
 FERRFEECISQSAVKTKFEQHTVRAKQIAEAVRLIMDSLHMAAREQQVYCEEMREE
 RQDRLKFIDKQLELLAQDYKLRIKQITEEVERQVSTAMAEIIRRLSVLVDDYQMDFHP
 SPVVLKVYKNELHRHIEEGLGRNMSDRCSITATNSLQTMQQDMIDGLKPLLPVSVRS
 QIDMLVPRQCFSNLNYDLNCDKLCADFQEDIEFHFSLGWTMLVNRFLGPKNSRRALM
 GYNDQVQRPIPLTPANPSMPPLPQGSLTQEEFMVSMVTGLASLTSTRTSMGILVVG
 VVWKAVGWRLIALSFGLYGLLYVYERLTWTTKAKERAFKRQFVEHASEKLQLVISYT
 GSNCSHQVQQELSGTFAHLCQQVDVTRENLEQEIAMNKKIEVLDSLQSKAKLLRN
 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;

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Gene ID	9927
mRNA Refseq	NM_014874
Protein Refseq	NP_055689
MIM	608507
UniProt ID	O95140
SDS-PAGE	