

# Recombinant Full Length Human MFN2 Protein, C-Flag-tagged

**Cat. No.** MFN2-1658HFL    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Full Length Human MFN2 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
<b>Species</b>	Human
<b>Source</b>	Mammalian Cells
<b>Description</b>	<p>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.</p>
<b>Form</b>	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
<b>Molecular Mass</b>	86.2 kDa
<b>AA Sequence</b>	<p>MSLLFSRCNSIVTVKKNKRHMAEVDNASPLKHFVTAKKKINGIFEQLGAYIQESATFLE            DTYRNAELDPVT TEEQVLDVKGYLSKVRGISEVLARRHMKVAFFGRTSNGKSTVIN            AMLWDKVLPSPGIGHTTNCFLRVEGTD GHEAFLLTEGSEEKRSAKTVNQLAHALHQD            KQLHAGSLVSVMWPNSKCPLLKDDLVLMDSPGIDVTTELD SWIDKFCLDADVFLV            ANSESTLMQTEKHFFHKVSRPILNRRWDASASEPEYMEEVRRQHMER CT</p>

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 45-1 Ramsey Road, Shirley, NY 11967, USA

SFLVDELGVVDRSQAGDRIFVSAKEVLNARIQKAQGMPEGGGALAEGFQVRMFEF  
 QNFERRFEECIS QSAVKTKFEQHTVRAKQIAEAVRLIMDSLHMAAREQQVYCEEMR  
 EERQDRLKFIDKQLELLAQDYKLRK QITEEVERQVSTAMAEIRRLSVLVDDYQMD  
 FHPSPVVLKVYKNELHRHIEEGLGRNMSDR CSTAITNSL QTMQQDMIDGLKPLLPVS  
 VRSQIDMLVPRQCFSNLNYDLNCDKLCADFQEDIEFHSLGWTMLVNRFLGPK NSRR  
 ALMGYNDQVQRPIPLTPANPSMPPLPQGSLTQEEFMVSMVTGLASLTSRTSMGILV  
 VGGVWKA VG WRLIALSFGLYGLLYVYERLTWTTKAKERAFKRQFVEHASEKLQLV  
 ISYTGSNCSHQVQQELSGTFAHLC  
 QQVDVTRENLEQEIAAMNKKIEVLDSLQSKAKLLRNKAGWLDSELNMFTHQYLQPS  
 RTRTRPLEQKLISEEDLAANDILDYKDDDDKV

<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining.
<b>Stability</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>Storage</b>	Store at -80 centigrade.
<b>Concentration</b>	>50 ug/mL as determined by microplate BCA method.
<b>Preparation</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Protein Families</b>	Transmembrane
<b>Full Length</b>	Full L.

## GENE INFORMATION

**Gene Name** MFN2 mitofusin 2 [ Homo sapiens (human) ]

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<b>Official Symbol</b>	MFN2
<b>Synonyms</b>	HSG; MARF; CMT2A; CPRP1; CMT2A2; HMSN6A; CMT2A2A; CMT2A2B
<b>Gene ID</b>	9927
<b>mRNA Refseq</b>	NM_014874.4
<b>Protein Refseq</b>	NP_055689.1
<b>MIM</b>	608507
<b>UniProt ID</b>	O95140



Coomassie blue staining of purified MFN2 protein.

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