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# Recombinant Human Mfn2 protein (His tag)

Catalog Number:PDEH100385



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

## Description

<b>Synonyms</b>	Mitofusin-2;MFN2;
<b>Species</b>	Human
<b>Expression Host</b>	E.coli
<b>Sequence</b>	Gln 350-Met 600
<b>Accession</b>	O95140
<b>Calculated Molecular Weight</b>	27.5 kDa
<b>Observed molecular weight</b>	35 kDa
<b>Tag</b>	N-His & C-His

## Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	Please contact us for more information.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Background

MFN-2 (Mitofusin 2; also Hypertension-related protein 1, Mitochondrial assembly regulatory factor, HSG protein, and Transmembrane GTPase MFN-2) is an 85?100 kDa mitochondrial member of the dynamin family of molecules. It is ubiquitously expressed, and found in both the ER and outer mitochondrial membrane. Through trans-interactions with MFN-1 and/or MFN-2, MFN-2 apparently mediates the fusion of individual mitochondria with either the ER or with adjacent mitochondria. Perturbations with this process result in both a general failure of mitochondria to fuse, and in cell-specific effects such as a reduction in oxidative phosphorylation, a decrease in the axonal transport of mitochondria, and a deficit in the expression of respiratory chain components. MFN-2 has two key domains.

## For Research Use Only

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