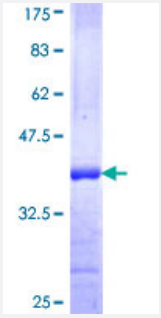
MFN2 (Human) Recombinant Protein (Q01)

Catalog # H00009927-Q01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human MFN2 partial ORF (NP_055689, 661 a.a. - 757 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	FKRQFVEHASEKLQLVISYTGSNCSHQVQQELSGTFAHLCQQVDVTRENLEQEIAAMNKKIEVLD SLQSKAKLLRNKAGWLDSELNMFTHQYLQPSR
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.41
Interspecies Antigen Sequence	Mouse (93); Rat (93)
Preparation Method	*in vitro* wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — MFN2

Entrez GeneID	9927
GeneBank Accession#	NM_014874
Protein Accession#	NP_055689
Gene Name	MFN2
Gene Alias	CMT2A, CMT2A2, CPRP1, HSG, KIAA0214, MARF
Gene Description	mitofusin 2
Omim ID	601152 608507 609260
Gene Ontology	Hyperlink
Gene Summary	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. [provided by RefSeq
Other Designations	OTTHUMP00000002509|hyperplasia suppressor|mitochondrial assembly regulatory factor|mitofusin-2|transmembrane GTPase MFN2

Publication Reference

- A selective inhibitor of mitofusin 1-βIIPKC association improves heart failure outcome in rats.

  Ferreira JCB, Campos JC, Qvit N, Qi X, Bozi LHM, Bechara LRG, Lima VM, Queliconi BB, Disatnik MH, Dourado PMM, Kowaltowski AJ, Mochly-Rosen D.

  Nature Communications 2019 Jan; 10(1):329.

  Application: WB, Rat, Rat cardiomyocytes

Disease

- Charcot-Marie-Tooth Disease
- Genetic Predisposition to Disease
- Glaucoma
- Hereditary Sensory and Motor Neuropathy