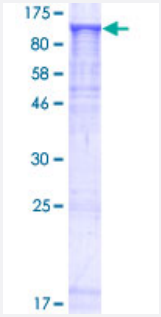
Full-Length

MFN1 (Human) Recombinant Protein (P01)

Catalog # H00055669-P01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human MFN1 full-length ORF (AAH40557, 1 a.a. - 741 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MAEPVSPLKHFVLAKKAITAIFDQLLEFVTEGSHFVEATYKNPELDRIATEDDLVEMQGYKDKLSIIG EVLSRRHMKVAFFGRTSSGKSSVINAMLWDKVLPSGIGHITNCFLSVEGTDGDKAYLMTEGSDEK KSVKTVNQLAHALHMDKDLKAGCLVRVFWPKAKCALLRDDLVLVDSPGTDVTTELDSWIDKFCL DADVFVLVANSESTLMNTEKHFFHKVNERLSKPNIFILNNRWDASASEPEYMEDVRRQHMERCL HFLVEELKVVNALEAQNRIFFVSAKEVLSARKQKAQGMPESGVALAEGFHARLQEFQNFEQIFEE CISQSAVKTKFEQHTIRAKQILATVKNIMDSVNLAAEDKRHYSVEEREDQIDRLDFIRNQMNLLTLDV KKKIKEVTEEVANKVSCAMTDEICRLSVLVDEFCSEFHPNPDVLKIYKSELNKHIEDGMGRNLADR CTDEVNALVLQTQQEIIENLKPLLPAGIQDKLHTLIPCKKFDLSYNLNYHKLCSDFQEDIVFRFSLGW SSLVHRFLGPRNAQRVLLGLSEPIFQLPRSLASTPTAPTTPATPDNASQEELMITLVTGLASVTSRT SMGIIIVGGVIWKTIGWKLLSVSLTMYGALYLYERLSWTTHAKERAFKQQFVNYATEKLRMIVSSTSA NCSHQVKQQIATTFARLCQQVDITQKQLEEEIARLPKEIDQLEKIQNNSKLLRNKAVQLENELENFT KQFLPSSNEES
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	107.25
Interspecies Antigen Sequence	Mouse (91); Rat (91)
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 — MFN1

Entrez GeneID	55669
GeneBank Accession#	BC040557
Protein Accession#	AAH40557
Gene Name	MFN1
Gene Alias	DKFZp762F247, FLJ20693, MGC41806, hfzo1, hfzo2
Gene Description	mitofusin 1
Omim ID	608506
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a mediator of mitochondrial fusion. This protein and mitofusin 2 are homologs of the Drosophila protein fuzzy onion (Fzo). They are mitochondrial membrane pr oteins that interact with each other to facilitate mitochondrial targeting. [provided by RefSeq
Other Designations	mitochondrial transmembrane GTPase FZO-2|mitochondrial transmembrane GTPase Fzo-1|putat ive transmembrane GTPase

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

- Mitochondrial Targeted Peptides Preserve Mitochondrial Organization and Decrease Reversible Myocardial Changes in Early Swine Metabolic Syndrome.

  Yuan F, Woollard JR, Jordan KL, Lerman A, Lerman LO, Eirin A.

  Cardiovascular Research 2018 Mar; 114(3):431.

  Application: Func, Pig, Pig myocardial mitochondria

Disease

- Genetic Predisposition to Disease
- Glaucoma