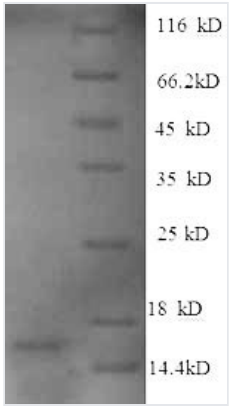
Growth/Differentiation Factor 15 (GDF15) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Growth/differentiation factor 15 (GDF15), Recombinant Protein
Full Product Name	Recombinant Human Growth/differentiation factor 15 protein
Product Gene Name	GDF15 recombinant protein
Product Synonym Gene Name	MIC1; PDF; PLAB; PTGFB
Product Synonym Names	Macrophage inhibitory cytokine 1; MIC-1; NSAID-activated gene 1 protein; NAG-1; NSAID-regulated gene 1 protein; NRG-1; Placental TGF-beta; Placental bone morphogenetic protein; Prostate differentiation factor
Sequence	RNGDHCPLGP GRCCRLHTVR ASLEDLGWAD WVLSPREVQV TMCIGACPSQ FRAANMHAQI KTSLHRLKPD TVPAPCCVPA SYNPMVLIQK TDTGVSLQTY DDLLAKDCHC I
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.
Molecular Weight	16.2 kDa
Sequence Positions	198-308aa; Full Length
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
OMIM	605312
3D Structure	ModBase 3D Structure for Q99988
Product Categories/Family for GDF15 recombinant protein	Cardiovascular
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for GDF15 recombinant protein	MBS1265491 is a recombinant protein targeting GDF15. Also known as Recombinant Human Growth/differentiation factor 15 protein. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Product References and Citations for GDF15 recombinant protein	PLAB, a novel placental bone morphogenetic protein.Hromas R., Hufford M., Sutton J., Xu D., Li Y., Lu L.Biochim. Biophys. Acta 1354:40-44(1997)
Other Notes	Small volumes of GDF15 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



SDS-PAGE of GDF15 recombinant protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GDF15. It may not necessarily be applicable to this product.

NCBI GI #	153792495
NCBI GeneID	9518
NCBI Accession #	NP_004855.2
UniProt Primary Accession #	Q99988
UniProt Secondary Accession #	O14629; P78360; Q9BWA0; Q9NRT0
UniProt Related Accession #	Q99988
GenBank Nucleotide #	NM_004864.2
NCBI Official Full Name	growth/differentiation factor 15 preproprotein
NCBI Official Synonym Full Names	growth differentiation factor 15
NCBI Official Symbol	GDF15
NCBI Official Synonym Symbols	PDF; MIC1; PLAB; MIC-1; NAG-1; PTGFB; GDF-15
UniProt Protein Name	Growth/differentiation factor 15
UniProt Synonym Protein Names	Macrophage inhibitory cytokine 1; MIC-1; NSAID-activated gene 1 protein; NAG-1; NSAID-regulated gene 1 protein; NRG-1; Placental TGF-beta; Placental bone morphogenetic protein; Prostate differentiation factor
Protein Family	Growth/differentiation factor
UniProt Gene Name	GDF15
UniProt Synonym Gene Names	MIC1; PDF; PLAB; PTGFB; GDF-15; MIC-1; NAG-1; NRG-1
UniProt Entry Name	GDF15_HUMAN
NCBI Protein Information	growth/differentiation factor 15
NCBI Summary for GDF15	The protein encoded by this gene belongs to the transforming growth factor-beta (TGF-beta) family. The protein is expressed in a broad range of cell types, acts as a pleiotropic cytokine and is involved in the stress reponse program of cells after cellular injury. Increased protein levels are associated with disease states such as tissue hypoxia, inflammation, acute injury and oxidative stress. [provided by RefSeq, Sep 2015]

UniProt Comments for GDF15	GDF15: disulfide-linked. Belongs to the TGF-beta family. Protein type: Cytokine; Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 19p13.11 Cellular Component: extracellular region; extracellular space Molecular Function: cytokine activity; growth factor activity; transforming growth factor beta receptor binding Biological Process: cell development; cell-cell signaling; regulation of apoptosis; regulation of MAPKKK cascade; signal transduction; transforming growth factor beta receptor signaling pathway
Research Articles on GDF15	**1.** Results suggest that GDF-15 works as a radiation inducible radiation resistance increasing factor in normal human fibroblast cells by regulating the radiation-induced transcription of several genes and might serve as a radiation-induced early biomarker.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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