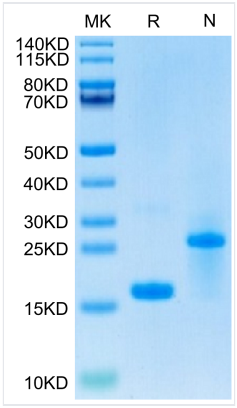
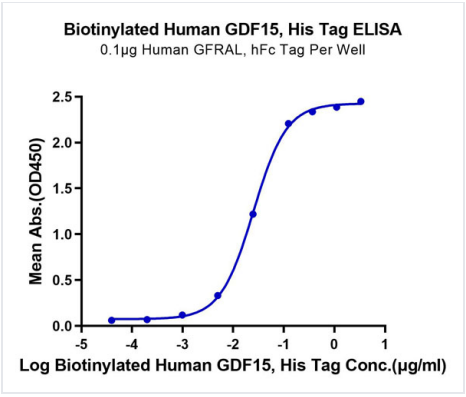
GDF15 Biotinylated Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	GDF15, Recombinant Protein
Full Product Name	Biotinylated Human GDF15 Protein Recombinant
Product Gene Name	GDF15 recombinant protein
Host	HEK293 cells (Note: Host protein expression may be lot-specific and can be subject to change during production, including bulk orders.)
Form/Format	Recombinant Human GDF15 (Primary Amine Labeling) was lyophilized from 0.2 um filtered PBS solution pH7.4
Purity/Purification	>95%, as determined by SDS-PAGE and HPLC
Preparation and Storage	The lyophilized protein is stable for at least 2 years from date of receipt at-20 degree C.
Molecular Weight	34,140 Da
Chromosome Location	Chromosome: 19; NC_000019.9 (18496968..18499986). Location: 19p13.11
OMIM	605312
3D Structure	ModBase 3D Structure for Q99988
Source	DNA sequence encoding Human GDF15 (Primary Amine Labeling) including a N-hFc tag was expressed in HEK293 Cells.The recombinant protein was then biotinylated site specific using the AVItag biotinylation technology.
Endotoxin	Endotoxin content was assayed using a LAL gel clot method. Endotoxin level was found to be less than 0.1 ng/ug (1EU/ug).
Molecular Function	Cytokine, Growth-factor
Reconstitution	Centrifuge vial to ensure maximal product extraction, recommended: 20sec, 5K RPM
Product Categories/Family for GDF15 recombinant protein	Biotinylated proteins
Related Product Information for GDF15 recombinant protein	MBS553939 is a recombinant protein targeting GDF15. Also known as Biotinylated Human GDF15 Protein Recombinant. Host: HEK293 cells (Note: Host protein expression may be lot-specific and can be subject to change during production, including bulk orders.).
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.



Tris-Bis-Page of GDF15 recombinant protein
Biotinylated Human GDF15 Protein Tris-Bis PAGEBiotinylated Human GDF15 on Tris-Bis PAGE under reduced (R) condition and Non reducing (N) condition. The purity is greater than 95%.



ELISA (EIA) of GDF15 recombinant protein
Biotinylated Human GDF15 Protein ELISA DataImmobilized Human GFRAL, hFc Tag at 1?g/ml (100?l/Well) on the plate. Dose response curve for Biotinylated Human GDF15, His Tag with the EC50 of 17.5ng/ml determined by ELISA.

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
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; NRG-1; PTGF-beta; placental TGF-beta; NSAID-activated gene 1 protein; NSAID-regulated gene 1 protein; prostate differentiation factor; macrophage inhibitory cytokine 1; placental bone morphogenetic protein; NSAID (nonster
NCBI Summary for GDF15	Bone morphogenetic proteins (e.g., BMP9; MIM 605120) are members of the transforming growth factor-beta (see TGFB1; MIM 190180) superfamily and regulate tissue differentiation and maintenance. They are synthesized as precursor molecules that are processed at a dibasic cleavage site to release C-terminal domains containing a characteristic motif of 7 conserved cysteines in the mature protein.[supplied by OMIM, Oct 2009]

UniProt Comments for GDF15	GDF15: disulfide-linked. Belongs to the TGF-beta family. Protein type: Secreted; Secreted, signal peptide; Cytokine Chromosomal Location of Human Ortholog: 19p13.11 Cellular Component: extracellular space; extracellular region Molecular Function: growth factor activity; cytokine activity; transforming growth factor beta receptor binding Biological Process: regulation of apoptosis; cell-cell signaling; transforming growth factor beta receptor signaling pathway; regulation of MAPKKK cascade; signal transduction; cell development
Research Articles on GDF15	**1.** Our study suggests that GDF15 induction helps suppress further activation of macrophages in stressful physiologic states as hemophagocytic lymphohistiocytosis...resulting in enhanced ferroportin-mediated iron efflux.
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