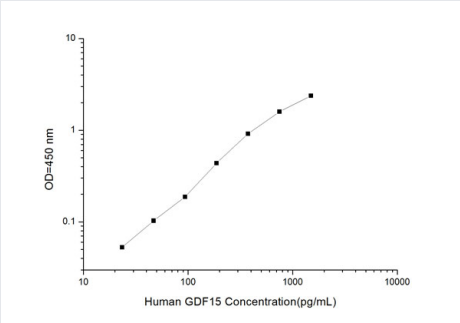
GDF15 ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	GDF15, ELISA Kit
Full Product Name	Human GDF15 (Growth Differentiation Factor 15) ELISA Kit
Product Gene Name	GDF15 elisa kit
Species Reactivity	Human
Assay Type	Quantitative Sandwich
Samples	Serum, plasma and other biological fluids
Detection Range	23.44-1500pg/mL
Sensitivity	14.06pg/mL
Specificity	This kit recognizes Human GDF15 in samples. No significant cross-reactivity or interference between Human GDF15 and analogues was observed.
Preparation and Storage	Store at 4 degree C.
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, mid range and high level Human GDF15 were tested on 3 different plates, 20 replicates in each plate.
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, mid range and high level Human GDF15 were tested 20 times on one plate, respectively.
Molecular Weight	34,140 Da
OMIM	605312
3D Structure	ModBase 3D Structure for Q99988
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for GDF15 elisa kit	Intended Uses: This ELISA kit applies to the in vitro quantitative determination of Human GDF15 concentrations in serum, plasma and other biological fluids. Principle of the Assay: This ELISA kit uses the Sandwich-ELISA principle. The micro ELISA plate provided in this kit has been pre-coated with an antibody specific to Human GDF15. Standards or samples are added to the micro ELISA plate wells and combined with the specific antibody. Then a biotinylated detection antibody specific for Human GDF15 and Avidin-Horseradish Peroxidase (HRP) conjugate are added successively to each micro plate well and incubated. Free components are washed away. The substrate solution is added to each well. Only those wells that contain Human GDF15, biotinylated detection antibody and Avidin-HRP conjugate will appear blue in color. The enzyme-substrate reaction is terminated by the addition of stop solution and the color turns yellow. The optical density (OD) is measured spectrophotometrically at a wavelength of 450 nm +/- 2 nm. The OD value is proportional to the concentration of Human GDF15. You can calculate the concentration of Human GDF15 in the samples by comparing the OD of the samples to the standard curve.
Other Notes	Small volumes of GDF15 elisa kit 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.

Searchable Terms for GDF15 purchase	MBS2504512 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the GDF15, ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing GDF15. The ELISA analytical biochemical technique of the MBS2504512 kit is based on GDF15 antibody-GDF15 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect GDF15 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, GDF15. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of GDF15 elisa kit

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; NSAID (nonsteroidal anti-inflammatory drug)-activated protein 1; NSAID-activated gene 1 protein; NSAID-regulated gene 1 protein; PTGF-beta; macrophage inhibitory cytokine 1; placental TGF-beta; placental bone morphogenetic protein; prostate differentiation factor

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; Cytokine; Secreted, signal peptide 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.** GDF-15 is a risk factor for major bleeding, mortality, and stroke in atrial fibrillation.
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