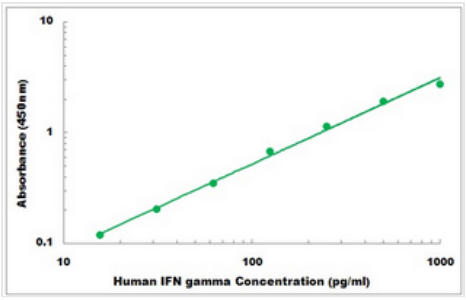
IFN Gamma (IFNG) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	IFN gamma (IFNG), ELISA Kit
Full Product Name	Human IFN gamma ELISA Kit
Product Gene Name	IFNG elisa kit
Product Synonym Names	Interferon gamma; IFN-gamma; Immune interferon
Species Reactivity	Human
Assay Type	Sandwich
Samples	Cell Culture Supernatants, Serum, Plasma, Urine, Tissue Homogenates
Sensitivity	The minimum detectable dose of Human IFN gamma is typically less than 4 pg/ml.
Specificity	The Human IFN gamma ELISA Kit allows for the detection and quantification of endogenous levels of natural and/or recombinant Human IFN gamma proteins within the range of 15.625 pg/ml - 1000 pg/ml.
Preparation and Storage	Shipped and store at 4 degree C for 6 months, store at -20 degree C for one year. Avoid freeze/thaw cycles.
Molecular Weight	19,348 Da
OMIM	gene 609135
3D Structure	ModBase 3D Structure for P01579
Applications Tested/Suitable for IFNG elisa kit	Sandwich ELISA (SE)
Related Product Information for IFNG elisa kit	**Principle of the assay:** Interferon-gamma (IFN-gamma) is an inflammatory cytokine that has been implicated in the development of fibrosis in inflamed tissues. The production of IFN-gamma, which is under genetic control, can influence the development of fibrosis in lung allografts. IFN-gamma is also produced by natural killer (NK) cells and most prominently by CD8 cytotoxic T cells, and is vital for the control of microbial pathogens. Interferon gamma is believed to be crucial for host defence against many infections. Genetically determined variability in IFN-gamma and expression might be important for the development of tuberculosis. IFN-gamma activates human macrophage oxidative metabolism and antimicrobial activity. In addition to having antiviral activity, IFN-gamma has important immunoregulatory functions. IFN-gamma plays an important role in the control of neointima proliferation. **Background:** Sandwich Enzyme-Linked Immunosorbent Assay for Quantitative Detection of Human IFN gamma Concentrations in Cell Culture Supernatants, Serum, Plasma, Urine, Tissue Homogenates.
Other Notes	Small volumes of IFNG 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 IFNG purchase	MBS824825 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the IFN gamma (IFNG) 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 IFNG. The ELISA analytical biochemical technique of the MBS824825 kit is based on IFNG antibody-IFNG antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect IFNG antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, IFNG. 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 IFNG elisa kit

ADDITIONAL DETAILS

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

NCBI GI #	56786138
NCBI GeneID	3458
NCBI Accession #	NP_000610.2
UniProt Primary Accession #	P01579
UniProt Secondary Accession #	Q53ZV4; B5BU88
UniProt Related Accession #	P01579
GenBank Nucleotide #	NM_000619.2
NCBI Official Full Name	interferon gamma
NCBI Official Synonym Full Names	interferon, gamma
NCBI Official Symbol	IFNG
NCBI Official Synonym Symbols	IFG; IFI
UniProt Protein Name	Interferon gamma
UniProt Synonym Protein Names	Immune interferon
Protein Family	Interferon
UniProt Gene Name	IFNG
UniProt Synonym Gene Names	IFN-gamma
UniProt Entry Name	IFNG_HUMAN
NCBI Protein Information	interferon gamma; IFN-gamma; immune interferon
NCBI Summary for IFNG	This gene encodes a member of the type II interferon family. The protein encoded is a soluble cytokine with antiviral, immunoregulatory and anti-tumor properties and is a potent activator of macrophages. Mutations in this gene are associated with aplastic anemia.[provided by RefSeq, Nov 2009]

UniProt Comments for IFNG	IFNG: Produced by lymphocytes activated by specific antigens or mitogens. IFN-gamma, in addition to having antiviral activity, has important immunoregulatory functions. It is a potent activator of macrophages, it has antiproliferative effects on transformed cells and it can potentiate the antiviral and antitumor effects of the type I interferons. Homodimer. Released primarily from activated T lymphocytes. Belongs to the type II (or gamma) interferon family. Protein type: Cytokine; Membrane protein, integral; Secreted, signal peptide; Secreted Chromosomal Location of Human Ortholog: 12q14 Cellular Component: extracellular space; extracellular region; external side of plasma membrane Molecular Function: interferon-gamma receptor binding; cytokine activity Biological Process: positive regulation of isotype switching to IgG isotypes; positive regulation of nitric oxide biosynthetic process; positive regulation of interleukin-23 production; negative regulation of smooth muscle cell proliferation; positive regulation of interleukin-12 production; positive regulation of osteoclast differentiation; apoptosis; positive regulation of interleukin-6 biosynthetic process; negative regulation of epithelial cell differentiation; negative regulation of transcription from RNA polymerase II promoter; positive regulation of killing of cells of another organism; positive regulation of interleukin-1 beta secretion; sensory perception of mechanical stimulus; positive regulation of membrane protein ectodomain proteolysis; cell surface receptor linked signal transduction; positive regulation of MHC class II biosynthetic process; positive regulation of cell proliferation; positive regulation of mesenchymal cell proliferation; positive regulation of T cell proliferation; cell cycle arrest; defense response to virus; regulation of the force of heart contraction; positive regulation of peptidyl-serine phosphorylation of STAT protein; response to drug; positive regulation of synaptic transmission, cholinergic; neutrophil chemotaxis; adaptive immune response; CD8-positive, alpha-beta T cell differentiation during immune response; negative regulation of myelination; unfolded protein response; response to virus; cytokine and chemokine mediated signaling pathway; defense response to protozoan; positive regulation of tumor necrosis factor production; humoral immune response; antigen processing and presentation; positive regulation of tyrosine phosphorylation of Stat1 protein; negative regulation of interleukin-17 production; positive regulation of interleukin-12 biosynthetic process; positive regulation of chemokine biosynthetic process; protein import into nucleus, translocation; defense response to bacterium; neutrophil apoptosis; positive regulation of transcription from RNA polymerase II promoter; cell motility; positive regulation of neuron differentiation; regulation of insulin secretion Disease: Hepatitis C Virus, Susceptibility To; Aplastic Anemia; Tuberous Sclerosis 2; Mycobacterium Tuberculosis, Susceptibility To; Human Immunodeficiency Virus Type 1, Susceptibility To
Research Articles on IFNG	**1.** the results indicate that in tegumentary leishmaniasis caused by L. braziliensis, IFN-gamma and TNF-alpha are the main cytokines involved in the tissue damage observed in this disease
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