Interferon Gamma (IFNG) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Interferon gamma (IFNG), Recombinant Protein
Full Product Name	Interferon gamma, Recombinant, Mouse (IFNg)
Product Gene Name	IFNG recombinant protein
Product Synonym Names	Anti -Interferon gamma, Recombinant, Mouse (IFNg)
Clonality	Monoclonal
Isotype	IgG1
Clone Number	5C7
Host	Rat
Species Reactivity	Mouse
Form/Format	Supplied as a lyophilized powder in PBS, pH 7.4. Reconstitute with 500ul 40-50% glycerol, ddH2O.
Purity/Purification	Highly Purified Purified by Ion Exchange chromatography.
Specificity	Recognizes mouse IFNg. No crossreaction to human or rat IFNg.
Preparation and Storage	Lyophilized powder may be stored at -20 degree C. Stable for 12 months at -20 degree C. Reconstitute by adding sterile 40-50% glycerol, ddH2O. Aliquot and store at -20 degree C. Reconstituted product is stable for 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Further dilutions can be made in assay buffer.
Molecular Weight	19,348 Da
Chromosome Location	Chromosome: 12; NC_000012.11 (68548550..68553521, complement). Location: 12q14
OMIM	147570
3D Structure	ModBase 3D Structure for P01579
Immunogen	Recombinant mouse IFNg
Product Categories/Family for IFNG recombinant protein	Antibodies; Abs to Interferon
Applications Tested/Suitable for IFNG recombinant protein	ELISA (EL/EIA), Western Blot (WB), Immunoprecipitation (IP)
Application Notes for IFNG recombinant protein	Suitable for use in Direct ELISA, Western Blot, Immunoprecipitation, and Intracellular staining. Dilution: Direct ELISA: 1:8000 dilution will yield 0.5 O.D using alkaline phosphatase conjugated rabbit anti-mouse Ig.
Related Product Information for IFNG recombinant protein	IFN-gamma 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, and has antiproliferative effects on transformed cells and it can potentiate the antiviral and antitumor effects of the type I interferons.
Other Notes	Small volumes of IFNG 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.
Searchable Terms for IFNG purchase	MBS609757 is a recombinant protein targeting IFNG. Also known as Interferon gamma, Recombinant, Mouse (IFNg). Reactive in Mouse. Host: Rat.

ADDITIONAL DETAILS

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

NCBI GI #	184639
NCBI GeneID	3458
UniProt Primary Accession #	P01579
UniProt Secondary Accession #	Q53ZV4; B5BU88
UniProt Related Accession #	P01579; Q14609; Q14610; Q14611; Q14612; Q14613; Q14614; Q14615; Q8NHY9; Q96LA2
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 Entry Name	IFNG_HUMAN
NCBI Protein Information	interferon gamma; IFN-gamma; immune interferon; OTTHUMP00000240111
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.

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: Secreted, signal peptide; Cytokine; Secreted; Membrane protein, integral 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; positive regulation of osteoclast differentiation; positive regulation of interleukin-12 production; negative regulation of smooth muscle cell proliferation; apoptosis; positive regulation of interleukin-6 biosynthetic process; negative regulation of epithelial cell differentiation; sensory perception of mechanical stimulus; negative regulation of transcription from RNA polymerase II promoter; positive regulation of interleukin-1 beta secretion; positive regulation of killing of cells of another organism; 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; negative regulation of myelination; CD8-positive, alpha-beta T cell differentiation during immune response; unfolded protein response; cytokine and chemokine mediated signaling pathway; response to virus; 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; positive regulation of chemokine biosynthetic process; positive regulation of interleukin-12 biosynthetic process; negative regulation of interleukin-17 production; 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; Mycobacterium Tuberculosis, Susceptibility To; Tuberous Sclerosis 2; Human Immunodeficiency Virus Type 1, Susceptibility To
Research Articles on IFNG	**1.** Data show differential expression of interferon-gamma, TNFSF3, TNFSF10, TNFSF12 and PDGFbeta in CD8+, CD14+ and CD4+ cells.
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