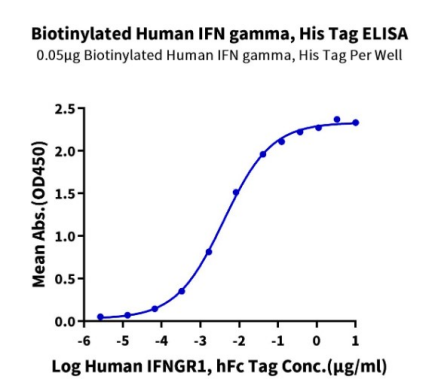
Bioactive | CellTx™ | HuPro®

# IFNG (Human) Recombinant Protein (Biotin)

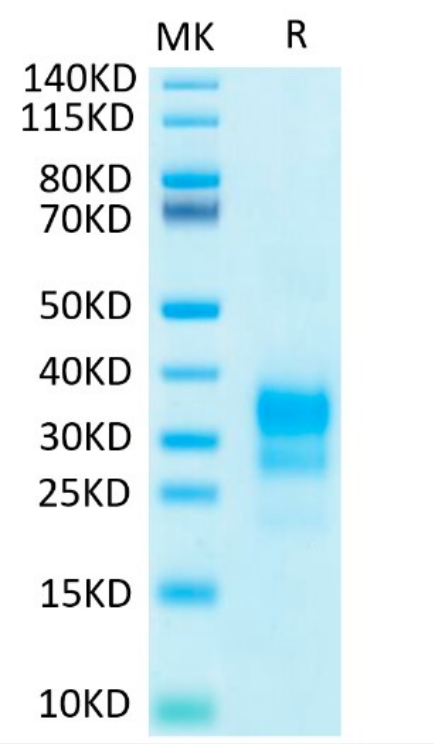
Catalog # P10423 Size 100 ug

## Applications




### Enzyme-linked Immunoabsorbent Assay

Immobilized Biotinylated Human IFN gamma, His Tag at 0.5 ug/mL (100 uL/well) on the streptavidin precoated plate (5 ug/mL). Dose response curve for Human IF ngR1, hFc Tag with the $EC_{50}$ of 4.0 ng/mL determined by ELISA.




### Tris-Bis PAGE

Biotinylated Human IFNG on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

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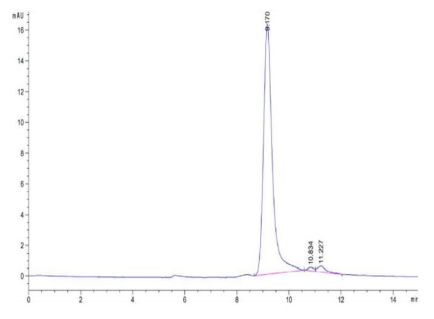

## SEC-HPLC

The purity of Biotinylated Human IFNG is greater than 95% as determined by SEC-HPLC.

## Specification

| | |
|---|---|
| **Product Description** | Human IFNG (P01579, Gln24-Gly161) partial recombinant protein with His-Avi tag at the C-Terminus expressed in HEK293 cells. |
| **Sequence** | Gln24-Gly161 |
| **Host** | Human |
| **Theoretical MW (kDa)** | 19.1 |
| **Reactivity** | Human |
| **Form** | Lyophilized |
| **Conjugation** | Biotin |
| **Preparation Method** | Mammalian cell (HEK293) expression system |
| **Purity** | > 95% by Tris-Bis PAGE<br>> 95% by HPLC |
| **Endotoxin Level** | < 0.1 EU per 1 ug as determined by the LAL method. |
| **Activity** | The $EC_{50}$ was 4.0 ng/mL, measured by ELISA at 0.5 ug/mL. |
| **Recommend Usage** | Biological Activity<br>ELISA<br>Tris-Bis PAGE<br>SEC-HPLC<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | Lyophilized from 0.22 um filtered solution in PBS, pH 7.4. (8% trehalose). |
| **Storage Instruction** | Store at -20°C for 12 months.<br>After reconstitution, store at 4°C for 2-7 days, or store at -80°C for 3-6 months.<br>Aliquot to avoid repeated freezing and thawing. |
| **Note** | Please use within one month after protein reconstitution. |

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## Applications

- Functional Study

- Enzyme-linked Immunoabsorbent Assay

  Immobilized Biotinylated Human IFN gamma, His Tag at 0.5 ug/mL (100 uL/well) on the streptavidin precoated plate (5 ug/mL). Dose response curve for Human IF ngR1, hFc Tag with the $EC_{50}$ of 4.0 ng/mL determined by ELISA.

## Gene Info — IFNG

| | |
|---|---|
| **Entrez GeneID** | 3458 |
| **Protein Accession#** | P01579 |
| **Gene Name** | IFNG |
| **Gene Alias** | IFG, IFI |
| **Gene Description** | interferon, gamma |
| **Omim ID** | 147570 191100 607948 609135 609423 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | Interferon-gamma (IFNG), or type II interferon, is a cytokine critical for innate and adaptive immunity against viral and intracellular bacterial infections and for tumor control. Aberrant IFNG expression is associated with a number of autoinflammatory and autoimmune diseases. The importance of IFNG in the immune system stems in part from its ability to inhibit viral replication directly, but most importantly derives from its immunostimulatory and immunomodulatory effects. IFNG is produced predominantly by natural killer (NK) and natural killer T (NKT) cells as part of the innate immune response, and by CD4 (MIM 186940) and CD8 (see MIM 186910) cytotoxic T lymphocyte (CTL) effector T cells once antigen-specific immunity develops (Schoenborn and Wilson, 2007 [PubMed 17981204]).[supplied by OMIM |
| **Other Designations** | - |

## Pathway

- Allograft rejection
- Cytokine-cytokine receptor interaction
- Graft-versus-host disease

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- Jak-STAT signaling pathway
- Natural killer cell mediated cytotoxicity
- Proteasome
- Regulation of autophagy
- Systemic lupus erythematosus
- T cell receptor signaling pathway
- TGF-beta signaling pathway
- Type I diabetes mellitus

## Disease

- Abortion
- Abscess
- Acquired Immunodeficiency Syndrome
- Acute Disease
- Adenocarcinoma
- Aggressive Periodontitis
- Alcoholism
- Alphavirus Infections
- Alveolitis
- Alzheimer disease
- Anemia
- Angina Pectoris
- Angiomyolipoma
- Arteriosclerosis
- Arthritis
- Asthma

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- Atherosclerosis
- Autoimmune Diseases
- Bacterial Infections
- Behcet Syndrome
- Biliary Atresia
- Bipolar Disorder
- Bone Marrow Diseases
- Boutonneuse Fever
- Brain Ischemia
- Breast cancer
- Breast Neoplasms
- Bronchial Hyperreactivity
- Bronchiectasis
- Bronchiolitis
- Bronchiolitis Obliterans
- Bronchopulmonary Dysplasia
- Brucellosis
- Cachexia
- Calcinosis
- Campylobacter Infections
- Carcinoma
- Cardiovascular Diseases
- Carotid Artery Diseases
- Carotid Stenosis
- Celiac Disease

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- Cervical Intraepithelial Neoplasia
- Chagas Cardiomyopathy
- Chagas Disease
- Chlamydia Infections
- Chronic Disease
- Clonorchiasis
- Colitis
- Colorectal Neoplasms
- Common Cold
- Common Variable Immunodeficiency
- Communicable Diseases
- Condylomata Acuminata
- Connective Tissue Diseases
- Coronary Artery Disease
- Coronary Disease
- Coronary Restenosis
- Coronary Stenosis
- Critical Illness
- Crohn Disease
- Cytomegalovirus Infections
- Depressive Disorder
- Dermatitis
- Dermatomyositis
- Diabetes
- Diabetes Complications
- Diabetes Mellitus

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- Diabetic Neuropathies
- Disease Progression
- Disease Susceptibility
- Down Syndrome
- Drug Hypersensitivity
- Ductus Arteriosus
- Edema
- Embryo Loss
- Endometriosis
- Endotoxemia
- Enterobacteriaceae Infections
- Enterocolitis
- Epstein-Barr Virus Infections
- Esophageal Neoplasms
- Esophagitis
- Fatigue Syndrome
- Fetal Diseases
- Fetal Membranes
- Fibrosis
- Fractures
- Gastritis
- Genetic Predisposition to Disease
- Gingival Hemorrhage
- Glomerulonephritis
- Glucosephosphate Dehydrogenase Deficiency
- Graft vs Host Disease

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- Graves Disease
- Graves Ophthalmopathy
- Hashimoto Disease
- Heart Diseases
- Helicobacter Infections
- Hematologic Diseases
- Hematologic Neoplasms
- Hepatitis B
- Hepatitis C
- Hepatitis E
- Histiocytosis
- HIV Infections
- Hodgkin Disease
- Hyperglycemia
- Hyperlipidemias
- Hypersensitivity
- Hypertension
- Hyperuricemia
- Hypotension
- Idiopathic Pulmonary Fibrosis
- Immunologic Deficiency Syndromes
- Infant
- Infection
- Infectious Mononucleosis
- Infertility
- Inflammation

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- Inflammatory Bowel Diseases
- Intervertebral Disk Displacement
- Irritable Bowel Syndrome
- Kidney Diseases
- Kidney Failure
- Kidney Neoplasms
- Leishmaniasis
- Leprosy
- Leptospirosis
- Leukemia
- Lichen Planus
- Liver Cirrhosis
- Liver Neoplasms
- Lung Diseases
- Lung Neoplasms
- Lupus Erythematosus
- Lymphadenitis
- Lymphatic Metastasis
- Lymphocytosis
- Lymphoma
- Lymphoproliferative Disorders
- Malaria
- Malignant melanoma
- Melanoma
- Mental Disorders
- Metaplasia

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- Mood Disorders
- Multiple Organ Failure
- Multiple Sclerosis
- Multiple Trauma
- Musculoskeletal Diseases
- Myasthenia Gravis
- Myocardial Infarction
- Myositis
- Nasopharyngeal Neoplasms
- Neoplasm Invasiveness
- Neoplasm Metastasis
- Neoplasms
- Neovascularization
- Neuropsychological Tests
- Obstetric Labor
- Osteolysis
- Osteomyelitis
- Osteoporotic Fractures
- Otitis Media
- Pain
- Pancreatic cancer
- Pancreatic Neoplasms
- Pancreatitis
- Papillomavirus Infections
- Paracoccidioidomycosis
- Paratyphoid Fever

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- Parkinson disease
- Parvoviridae Infections
- Pemphigoid
- Pemphigus
- Periodontal Pocket
- Periodontitis
- Picornaviridae Infections
- Pneumonia
- Polymyalgia Rheumatica
- Polymyositis
- Postoperative Complications
- Precancerous Conditions
- Pre-Eclampsia
- Pregnancy Complications
- Premature Birth
- Prosthesis Failure
- Psoriasis
- Pulmonary Disease
- Pulmonary Emphysema
- Pulmonary Fibrosis
- Purpura
- Q Fever
- Radiation Injuries
- Radiation Pneumonitis
- Recurrence
- Reperfusion Injury

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- Respiratory Distress Syndrome
- Respiratory Sounds
- Respiratory Syncytial Virus Infections
- Respiratory Tract Infections
- Retinal Detachment
- Retinal Diseases
- Rhinitis
- Rupture
- Salmonella Infections
- Sarcoidosis
- Schistosomiasis mansoni
- Sciatica
- Scleroderma
- Sepsis
- Severe Acute Respiratory Syndrome
- Severe combined immunodeficiency
- Shock
- Skin Diseases
- Skin Neoplasms
- Skin Ulcer
- Small Cell Lung Carcinoma
- Staphylococcal Infections
- Stomach Neoplasms
- Subacute Sclerosing Panencephalitis
- Substance Withdrawal Syndrome
- Sudden Infant Death

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- Syndrome
- Temporal Arteritis
- Thoracic Neoplasms
- Tobacco Use Disorder
- Trypanosomiasis
- Tuberculosis
- Tuberous sclerosis
- Typhoid Fever
- Urinary Bladder Neoplasms
- Uterine Cervical Neoplasms
- Uveitis
- Uveomeningoencephalitic Syndrome
- Vascular Diseases
- Viremia
- Vitiligo
- Vitreoretinopathy
- Wegener Granulomatosis
- Werner syndrome
- Wounds and Injuries

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