Bioactive

IL1A (Human) Recombinant Protein

Catalog # P7151 Size 10 ug

Specification

Product Description	Human IL1A (P01583, 113 a.a. - 271 a.a.) partial recombinant protein expressed in *Escherichia coli* .
Sequence	SAPFSFLSNVKYNFMRIIKYEFILNDALNQSIIRANDQYLTAAALHNLDEAVKFDMGAYKSSKDDAKI TVILRISKTQLYVTAQDEDQPVLLKEMPEIPKTITGSETNLLFFWETHGTKNYFTSVAHPNLFIATKQD YWVCLAGGPPSITDFQILENQA
Host	Escherichia coli
Theoretical MW (kDa)	18
Form	Lyophilized
Preparation Method	*Escherichia coli* expression system
Purity	> 97% by SDS-PAGE
Endotoxin Level	< 1 EU per 1 ug of protein (determined by LAL method)
Activity	The ED_{50} was determined by the cell proliferation assay using murine D10S cells is < 1.0 pg/ml, corr esponding to a specific activity of > 1.0×10^9 IU/mg.
Storage Buffer	Lyophilized from sterile distilled Water up to 0.1 - 1.0 mg/ml
Storage Instruction	Store at 4°C to 8°C for 1 week. For long term storage store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- SDS-PAGE

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Gene Info — IL1A

Entrez GeneID	3552
Protein Accession#	P01583
Gene Name	IL1A
Gene Alias	IL-1A, IL1, IL1-ALPHA, IL1F1
Gene Description	interleukin 1, alpha
Omim ID	147760
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a member of the interleukin 1 cytokine family. This cytokine is a pleiotropic cytokine involved in various immune responses, inflammatory processes, and hemat opoiesis. This cytokine is produced by monocytes and macrophages as a proprotein, which is pr oteolytically processed and released in response to cell injury, and thus induces apoptosis. This g ene and eight other interleukin 1 family genes form a cytokine gene cluster on chromosome 2. It h as been suggested that the polymorphism of these genes is associated with rheumatoid arthritis and Alzheimer's disease. [provided by RefSeq
Other Designations	IL1A (IL1F1)|hematopoietin-1|preinterleukin 1 alpha|pro-interleukin-1-alpha

Pathway

- Apoptosis
- Cytokine-cytokine receptor interaction
- Graft-versus-host disease
- Hematopoietic cell lineage
- MAPK signaling pathway
- Prion diseases
- Type I diabetes mellitus

Disease

- Acquired Immunodeficiency Syndrome
- Acute Disease

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- Adenocarcinoma
- Aggressive Periodontitis
- AIDS Dementia Complex
- Alcoholism
- Alopecia Areata
- Alveolar Bone Loss
- Alveolitis
- Alzheimer disease
- Angina
- Angina Pectoris
- Aortic Aneurysm
- Arteriosclerosis
- Arthralgia
- Arthritis
- Aspergillosis
- Asthma
- Atherosclerosis
- Atrial Fibrillation
- Autoimmune Diseases
- Behcet Syndrome
- Berylliosis
- Biliary Atresia
- Biliary Tract Neoplasms
- Bone Diseases
- Bone Marrow Diseases
- Bone Resorption

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- Brain Injuries
- Brain Ischemia
- Breast cancer
- Breast Neoplasms
- Bronchial Hyperreactivity
- Bronchiolitis
- Cadaver
- Calcinosis
- Carcinoma
- Cardiovascular Diseases
- Celiac Disease
- Cell Transformation
- Cellulitis
- Cerebral Amyloid Angiopathy
- Cerebral Hemorrhage
- Cerebral Infarction
- Chagas Cardiomyopathy
- Chlamydia Infections
- Chorioamnionitis
- Chronic Disease
- Chronic Periodontitis
- Cognition
- Colitis
- Colorectal Neoplasms
- Common Variable Immunodeficiency
- Communicable Diseases

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- Connective Tissue Diseases
- Constriction
- Coronary Artery Disease
- Coronary Disease
- Coronary Restenosis
- Coronary Stenosis
- Cystic fibrosis
- Death
- Dementia
- Dental Calculus
- Dental Fistula
- Dental Occlusion
- Dental Plaque
- Dermatitis
- Dermatomyositis
- Diabetes Complications
- Diabetes Mellitus
- Disease
- Disease Progression
- Disease Susceptibility
- Ductus Arteriosus
- Dysthymic Disorder
- Edema
- Epilepsy
- Epstein-Barr Virus Infections
- Erythema

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- Erythema Nodosum
- Esophageal Neoplasms
- Esophagitis
- Fabry Disease
- Fetal Death
- Fetal Diseases
- Fetal Membranes
- Gastritis
- Genetic Predisposition to Disease
- Gingival Hemorrhage
- Gingival Hyperplasia
- Gingival Recession
- Gingivitis
- Glaucoma
- Glomerulonephritis
- Graft vs Host Disease
- Graves Disease
- Graves Ophthalmopathy
- Helicobacter Infections
- Hematologic Diseases
- Hematologic Neoplasms
- Hemorrhagic Fever with Renal Syndrome
- Hepatitis
- Hepatitis C
- HIV Infections
- Hodgkin Disease

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- Hypercholesterolemia
- Hypersensitivity
- Hypertension
- Idiopathic Pulmonary Fibrosis
- Infant
- Infection
- Inflammation
- Intervertebral Disk Degeneration
- Intervertebral Disk Displacement
- Irritable Bowel Syndrome
- Keratoconus
- Kidney Failure
- Kidney Neoplasms
- Leptospirosis
- Leukemia
- Lichen Planus
- Liver Cirrhosis
- Liver Diseases
- Liver Neoplasms
- Low Back Pain
- Lung Diseases
- Lung Neoplasms
- Lupus Erythematosus
- Lymphocytosis
- Lymphoma
- Lymphoproliferative Disorders

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- Macular Degeneration
- Malaria
- Mandibular Diseases
- Maxillary Diseases
- Meningococcal Infections
- Mental Disorders
- Metabolic Syndrome X
- Migraine Disorders
- Migraine with Aura
- Migraine without Aura
- Mood Disorders
- Mouth Neoplasms
- Multiple Myeloma
- Multiple Organ Failure
- Multiple Sclerosis
- Multiple System Atrophy
- Multiple Trauma
- Musculoskeletal Diseases
- Myasthenia Gravis
- Myocardial Infarction
- Narcolepsy
- Nasal Polyps
- Neoplasm Invasiveness
- Neoplasm Metastasis
- Neoplasm Recurrence
- Neoplasms

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- Neovascularization
- Nerve Degeneration
- Neuropsychological Tests
- Obesity
- Obstetric Labor
- Occupational Diseases
- Ocular Hypertension
- Ossification of Posterior Longitudinal Ligament
- Osteoarthritis
- Osteolysis
- Osteomyelitis
- Osteoporosis
- Otitis Media
- Ovarian cancer
- Ovarian Neoplasms
- Pain
- Pancreatitis
- Papillomavirus Infections
- Paratyphoid Fever
- Parkinson disease
- Pemphigoid
- Pemphigus

- Periodontal Attachment Loss
- Periodontal Diseases
- Periodontal Pocket

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- Periodontitis
- Persistent Vegetative State
- Pneumoconiosis
- Pneumonia
- Polycystic Ovary Syndrome
- Polymyalgia Rheumatica
- Postoperative Complications
- Pre-Eclampsia
- Pregnancy Complications
- Premature Birth
- Prostate cancer
- Prostatic Neoplasms
- Prosthesis Failure
- Psoriasis
- Psychiatric Status Rating Scales
- Psychometrics
- Puerperal Disorders
- Pulmonary Disease
- Pulmonary Fibrosis
- Radiation Injuries
- Radiation Pneumonitis
- Radius Fractures
- Recurrence
- Reflex Sympathetic Dystrophy
- Respiratory Distress Syndrome
- Respiratory Hypersensitivity

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- Respiratory Syncytial Virus Infections
- Retinopathy of Prematurity
- Rhinitis
- Root Resorption
- Sarcoidosis
- Sarcoma
- Schizophrenia
- Sciatica
- Scleroderma
- Sclerosis
- Seizures
- Sepsis
- Severe Acute Respiratory Syndrome
- Silicosis
- Sinusitis
- Skin Diseases
- Skin Ulcer
- Spinal Diseases
- Spinal Fractures
- Spondylitis
- Stomach Neoplasms
- Stomatitis
- Streptococcal Infections
- Stroke
- Subarachnoid Hemorrhage
- Sudden Infant Death

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- Systemic Inflammatory Response Syndrome
- Temporal Arteritis
- Thyroid Diseases
- Tooth Loss
- Tooth Mobility
- Trachoma
- Trypanosomiasis
- Tuberculosis
- Typhoid Fever
- Urinary Bladder Neoplasms
- Uterine Cervical Neoplasms
- Vaginosis
- Viremia
- Vulvar Neoplasms
- Waldenstrom Macroglobulinemia
- Werner syndrome

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