Bioactive

LTA (Human) Recombinant Protein

Catalog # P3669 Size 20 ug

Specification

Product Description	Human LTA (P01374, 35 a.a. - 205 a.a.) partial recombinant protein expressed in *Escherichia coli*.
Sequence	LPGVGLTPSAAQTARQHPKMHLAHSTLKPAAHLIGDPSKQNSLLWRANTDRAFLQDGFSLSNNS LLVPTSGIYFVYSQVVFSGKAYSPKATSSPLYLAHEVQLFSSQYPFHVPLLSSQKMVYPGLQEPW LHSMYHGAAFQLTQGDQLSTHTDGIPHLVLSPSTVFFGAFAL
Host	Escherichia coli
Theoretical MW (kDa)	21
Form	Lyophilized
Preparation Method	*Escherichia coli* expression system
Purification	Ion exchange column and HPLC reverse phase column
Purity	> 90% by SDS-PAGE and HPLC
Endotoxin Level	< 0.1 ng/ug (1 EU/ug)
Activity	The ED_{50} was Measured in a cytotoxicity assay using mouse L929 cells in the presence of the meta bolic inhibitor actinomycin, and was determined to be less than 0.1 ng/mL.
Storage Buffer	Lyophilized from PBS, pH 7.5
Storage Instruction	Store at 4°C for 1 month or store at -20°C for 6 months. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- SDS-PAGE

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Gene Info — LTA

Entrez GeneID	4049
Protein Accession#	P01374
Gene Name	LTA
Gene Alias	LT, TNFB, TNFSF1
Gene Description	lymphotoxin alpha (TNF superfamily, member 1)
Omim ID	153440
Gene Ontology	Hyperlink
Gene Summary	The encoded protein, a member of the tumor necrosis factor family, is a cytokine produced by lymphocytes. The protein is highly inducible, secreted, and forms heterotrimers with lymphotoxin-beta which anchor lymphotoxin-alpha to the cell surface. This protein also mediates a large variety of inflammatory, immunostimulatory, and antiviral responses, is involved in the formation of secondary lymphoid organs during development and plays a role in apoptosis. Genetic variations in this gene are associated with susceptibility to leprosy type 4 and psoriatic arthritis
Other Designations	OTTHUMP00000029184|OTTHUMP00000037612|OTTHUMP00000037613|OTTHUMP00000165897|lymphotoxin alpha|tumor necrosis factor beta

Pathway

- Antigen processing and presentation
- Cytokine-cytokine receptor interaction
- Type I diabetes mellitus

Disease

- Abortion
- Acute Disease
- Adenocarcinoma
- Adenomatous Polyps
- AIDS-Related Opportunistic Infections

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- Alcoholism
- Alzheimer disease
- Amyotrophic lateral sclerosis
- Arterial Occlusive Diseases
- Arteriosclerosis
- Arthralgia
- Arthritis
- Aspergillosis
- Asthma
- Atherosclerosis
- Atrophy
- Autoimmune Diseases
- Bacteremia
- Behcet Syndrome
- Bipolar Disorder
- Brain Diseases
- Brain Ischemia
- Breast cancer
- Breast Neoplasms
- Bronchial Hyperreactivity
- Bronchiectasis
- Bronchiolitis
- Bronchopulmonary Dysplasia
- Burkitt lymphoma
- Byssinosis
- Cachexia

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- Cadaver
- Calcinosis
- Carcinoma
- Cardiomyopathy
- Cardiovascular Diseases
- Carotid Artery Diseases
- Celiac Disease
- Cerebral Infarction
- Cerebral Palsy
- Cerebrovascular Accident
- Cerebrovascular Disorders
- Chagas Cardiomyopathy
- Chlamydia Infections
- Chlamydophila Infections
- Chorioamnionitis
- Chronic Disease
- Cognition Disorders
- Colitis
- Colonic Polyps
- Colorectal Neoplasms
- Community-Acquired Infections
- Constriction
- Coronary Artery Disease
- Coronary Disease
- Coronary Restenosis
- Coronary Stenosis

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- Critical Illness
- Crohn Disease
- Cross Infection
- Cystic fibrosis
- Dengue
- Dental Plaque
- Depressive Disorder
- Diabetes
- Diabetes Complications
- Diabetes Mellitus
- Diabetic Nephropathies
- Diabetic Retinopathy
- Disease Progression
- Disease Susceptibility
- Drug Hypersensitivity
- Duodenal Ulcer
- Eclampsia
- Edema
- Endometrial Neoplasms
- Endometriosis
- Erythema Nodosum
- Esophageal Neoplasms
- Esophagitis
- Fetal Membranes
- Fever
- Gastritis

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- Genetic Diseases
- Genetic Predisposition to Disease
- Gingivitis
- Glomerulonephritis
- Glucose Intolerance
- Graft vs Host Disease
- Graves Disease
- Hearing Loss
- Helicobacter Infections
- HELLP Syndrome
- Hematologic Diseases
- Hepatitis
- Hepatitis B
- Hepatitis C
- HIV Seropositivity
- HIV-Associated Lipodystrophy Syndrome
- Hodgkin Disease
- HTLV-I Infections
- Hyperglycemia
- Hyperlipidemias
- Hypersensitivity
- Hypertension
- Hypoxia-Ischemia
- Infant
- Infection
- Inflammation

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- Inflammatory Bowel Diseases
- Insulin Resistance
- Intracranial Arteriosclerosis
- Kidney Failure
- Kidney Neoplasms
- Leishmaniasis
- Leprosy
- Leukemia
- Leukemia-Lymphoma
- Limb Deformities
- Liver Cirrhosis
- Liver Failure
- Lung Diseases
- Lung Neoplasms
- Lupus Erythematosus
- Lymphatic Metastasis
- Lymphoma
- Lymphoproliferative Disorders
- Malaria
- Malignant melanoma
- Melanoma
- Meningococcal Infections
- Metabolic Syndrome X
- Migraine Disorders
- Migraine with Aura
- Migraine without Aura

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- Mouth Neoplasms
- Multiple Myeloma
- Multiple Sclerosis
- Myasthenia Gravis
- Myelodysplastic Syndromes
- Myocardial Infarction
- Neoplasms
- Neovascularization
- Neuropsychological Tests
- Obesity
- Obstetric Labor
- Occupational Diseases
- Oligospermia
- Ophthalmia
- Oral Submucous Fibrosis
- Osteoarthritis
- Osteoporosis
- Pain
- Pancreatitis
- Papillomavirus Infections
- Paraparesis
- Paraproteinemias
- Parasitemia
- Pemphigus
- Periodontitis
- Peripheral Vascular Diseases

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- Pneumoconiosis
- Pneumonia
- Polycystic Ovary Syndrome
- Postoperative Complications
- Precancerous Conditions
- Pre-Eclampsia
- Premature Birth
- Prostate cancer
- Prostatic Neoplasms
- Psoriasis
- Pulmonary Disease
- Pulmonary Emphysema
- Pulmonary Fibrosis
- Purpura
- Radiation Injuries
- Radiation Pneumonitis
- Recurrence
- Respiratory Distress Syndrome
- Respiratory Insufficiency
- Respiratory Sounds
- Respiratory Syncytial Virus Infections
- Retinal Detachment
- Sarcoidosis
- Schistosomiasis
- Schizophrenia
- Scleroderma

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- Seminoma
- Sepsis
- Shock
- Sinusitis
- Skin Neoplasms
- Stomach Neoplasms
- Stomach Ulcer
- Stroke
- Substance-Related Disorders
- Syndrome
- Systemic Inflammatory Response Syndrome
- Tension-Type Headache
- Testicular Neoplasms
- Thoracic Neoplasms
- Thrombosis
- Thymoma
- Thymus Neoplasms
- Thyroiditis
- Trachoma
- Tuberculosis
- Typhoid Fever
- Urinary Bladder Neoplasms
- Urinary Tract Infections
- Uterine Cervical Neoplasms
- Uveitis

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- Vaginosis
- Vasculitis
- Venous Thrombosis
- Vitreoretinopathy
- Waldenstrom Macroglobulinemia
- Werner syndrome
- Wounds

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