Bioactive

CTLA4 (Human) Recombinant Protein

Catalog # P8530 Size

Specification

Product Description	Human CTLA4 (P16410, 36 a.a. - 161 a.a) partial-length recombinant protein with His-tag at C-terminal expressed in *Baculovirus*.
Sequence	ADLKAMHVAQPAVVLASSRGIASFVCEYASPGKATEVRVTVLRQADSQVTEVCAATYMMGNELT FLDDSICTGTSSGNQVNLTIQGLRAMDTGLYICKVELMYPPPYYLGIGNGTQIYVIDPEPCPDSDHHH HHH.
Host	Nicotiana benthamiana
Theoretical MW (kDa)	14.6
Form	Liquid
Preparation Method	*Baculovirus* expression system
Purity	> 90% by SDS-PAGE
Activity	Determined by IL-2 ELISA via Jurkat human acute T cell leukemia cells. The ED_{50} range ≤ 150 ng/mL with Human B7-1/CD80.
Storage Buffer	CTLA4 protein solution (0.25 mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 20% glycerol.
Storage Instruction	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time.

Applications

- Functional Study
- SDS-PAGE

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Gene Info — CTLA4

Entrez GeneID	1493
Protein Accession#	P16410
Gene Name	CTLA4
Gene Alias	CD152, CELIAC3, CTLA-4, GSE, IDDM12
Gene Description	cytotoxic T-lymphocyte-associated protein 4
Omim ID	123890 140300 275000 601388 609755
Gene Ontology	Hyperlink
Gene Summary	This gene is a member of the immunoglobulin superfamily and encodes a protein which transmits an inhibitory signal to T cells. The protein contains a V domain, a transmembrane domain, and a c ytoplasmic tail. Alternate transcriptional splice variants, encoding different isoforms, have been ch aracterized. The membrane-bound isoform functions as a homodimer interconnected by a disulfid e bond, while the soluble isoform functions as a monomer. Mutations in this gene have been asso ciated with insulin-dependent diabetes mellitus, Graves disease, Hashimoto thyroiditis, celiac dis ease, systemic lupus erythematosus, thyroid-associated orbitopathy, and other autoimmune dise ases. [provided by RefSeq
Other Designations	OTTHUMP00000163781|cytotoxic T-lymphocyte-associated antigen 4|cytotoxic T-lymphocyte-as sociated serine esterase-4|ligand and transmembrane spliced cytotoxic T lymphocyte associated antigen 4

Pathway

- Autoimmune thyroid disease
- Cell adhesion molecules (CAMs)
- T cell receptor signaling pathway

Disease

- Abortion
- Abruptio Placentae
- Acquired Immunodeficiency Syndrome

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- Acute Disease
- Addison Disease
- Adenocarcinoma
- Adenoma
- Alcoholism
- Alopecia Areata
- Anemia
- Arthritis
- Asthma
- Atherosclerosis
- Autoimmune Diseases
- Autoimmune polyglandular syndrome
- Behcet Syndrome
- Bipolar Disorder
- Brain Ischemia
- Breast cancer
- Breast Neoplasms
- Bronchial Hyperreactivity
- Bronchiolitis
- Bronchitis
- Calcinosis
- Calculi
- Carcinoma
- Cardiomyopathy
- Cardiovascular Diseases
- Celiac Disease

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- Chagas Disease
- Chlamydia Infections
- Cholangitis
- Choriocarcinoma
- Chronic Disease
- Colitis
- Colon cancer
- Colonic Neoplasms
- Colorectal Neoplasms
- Common Variable Immunodeficiency
- Communicable Diseases
- Connective Tissue Diseases
- Coronary Artery Disease
- Coronary Disease
- Crohn Disease
- Deltaretrovirus Infections
- Dengue
- Dengue Hemorrhagic Fever
- Depressive Disorder
- Dermatitis
- Diabetes Complications
- Diabetes Mellitus
- Diabetic Angiopathies
- Diabetic Ketoacidosis
- Diabetic Nephropathies
- Diabetic Neuropathies

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- Diabetic Retinopathy
- Disease Progression
- Disease Susceptibility
- Disorders of Excessive Somnolence
- Drug Eruptions
- Eczema
- Edema
- Endocrine System Diseases
- Endometriosis
- Eosinophilia
- Epstein-Barr Virus Infections
- Erythema Nodosum
- Esophageal Neoplasms
- Eye Diseases
- Fatty Liver
- Fetal Diseases
- Gender Identity
- Genetic Predisposition to Disease
- Graft vs Host Disease
- Graves Disease
- Graves Ophthalmopathy
- Hashimoto Disease
- Helicobacter Infections
- Hemophilia A
- Hepatitis
- Hepatitis B

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- Hepatitis C
- HIV Infections
- Hydatidiform Mole
- Hypersensitivity
- Hypertension
- Hypoparathyroidism
- Hypothyroidism
- IgA Deficiency
- Infant
- Infection
- Inflammation
- Inflammatory Bowel Diseases
- Iridocyclitis
- Kidney Failure
- Kidney Neoplasms
- Leg Dermatoses
- Leishmaniasis
- Leukemia
- Liver Cirrhosis
- Liver Diseases
- Liver Neoplasms
- Lung Neoplasms
- Lupus Erythematosus
- Lymphocytosis
- Lymphohistiocytosis
- Lymphoma

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- Lymphoproliferative Disorders
- Malignant melanoma
- Melanoma
- Meniere Disease
- Migraine Disorders
- Migraine with Aura
- Migraine without Aura
- Mouth Neoplasms
- Multiple Myeloma
- Multiple Sclerosis
- Musculoskeletal Diseases
- Myasthenia Gravis
- Myocardial Infarction
- Myxedema
- Nasopharyngeal Neoplasms
- Neoplasm Metastasis
- Neoplasms
- Obesity
- Oral Submucous Fibrosis
- Osteoporosis
- Pancreatitis
- Papillomavirus Infections
- Paraproteinemias
- Pemphigus
- Periodontitis

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- Polyendocrinopathies
- Polyradiculoneuropathy
- Postpartum Thyroiditis
- Prediabetic State
- Pre-Eclampsia
- Pregnancy Complications
- Premature Birth
- Prenatal Exposure Delayed Effects
- Proteinuria
- Psoriasis
- Pulmonary Disease
- Pulmonary Fibrosis
- Purpura
- Recurrence
- Respiratory Syncytial Virus Infections
- Rheumatic Heart Disease
- Rhinitis
- Sarcoidosis
- Schizophrenia
- Scleroderma
- Skin Diseases
- Skin Neoplasms
- Spondylarthropathies
- Spondylitis
- Stomach Neoplasms
- Stroke
- Sunburn

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- Thymoma
- Thymus Hyperplasia
- Thymus Neoplasms
- Thyroid Diseases
- Thyroiditis
- Trachoma
- Tuberculosis
- Urinary Bladder Neoplasms
- Urologic Diseases
- Uterine Cervical Neoplasms
- Uveitis
- Uveomeningoencephalitic Syndrome
- Vasculitis
- Vitiligo
- Wegener Granulomatosis
- Werner syndrome

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