

Bioactive

CTLA4 (Human) Recombinant Protein

Catalog # P7539

Size 1 mg

Specification

Product Description	Human CTLA4 (P16410, 37 a.a. - 162 a.a.) partial recombinant protein with hFc tag at C-terminus expressed in CHO cell.
Sequence	AMHVAQPAVVLASSRGIA SFVCEYASPGKATEVRVTVLRQADSQVTEVCAATYMMGNELTFLDD SICTGTSSGNQVNLTIQGLRAMDTGLYICKVELMYPPPYLGINGTQIYVIDPEPCPD SDF
Host	Mammals
Theoretical MW (kDa)	45-48
Form	Lyophilized
Preparation Method	Mammalian cell (CHO) expression system
Purity	> 98% by SDS-PAGE
Endotoxin Level	< 0.2 EU per 1 ug of protein (determined by gel clotting method)
Activity	Measured by the ability to inhibit IL-2 secretion by co-culturing stimulated Jurkat human acute T cell leukemia cells and CD80 expression CHO stable cell line. Immobilized B7-2 (CD86), His, Human at 2.0 ug/mL (100 uL/well) can bind CTLA-4, hFc, Human.
Storage Buffer	Lyophilized from sterile distilled Water up to 100 ug/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.
Note	Result of bioactivity analysis

Applications

- Functional Study
- SDS-PAGE

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 cytoplasmic tail. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. The membrane-bound isoform functions as a homodimer interconnected by a disulfide bond, while the soluble isoform functions as a monomer. Mutations in this gene have been associated with insulin-dependent diabetes mellitus, Graves disease, Hashimoto thyroiditis, celiac disease, systemic lupus erythematosus, thyroid-associated orbitopathy, and other autoimmune diseases. [provided by RefSeq]

Other Designations OTTHUMP00000163781|cytotoxic T-lymphocyte-associated antigen 4|cytotoxic T-lymphocyte-associated 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](#)

- [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](#)

- [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](#)

- [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](#)
- [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](#)
- [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](#)

- [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](#)
- [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](#)