TNF (Human) Recombinant Protein

Catalog # P9224 Size 2 x 10 ug

Specification

Product Description	Human TNF partial recombinant protein with His tag in C-terminus expressed in Baculovirus cells.
Sequence	VRSSSRTPSDKPVAHVVANPQAEGQLQWLNRRANALLANGVELRDNQLVVPSEGLYLIYSQVLF KGQGCPSTHVLLTHTISRIAVSYQTKVNLLSAIKSPCQRETPEGAEAKPWYEPIYLGGVFQLEKGD RLSAEINRPDYLDFAESGQVYFGIIALHHHHHH
Host	Viruses
Theoretical MW (kDa)	18.1
Form	Liquid
Preparation Method	Baculovirus expression system
Purification	chromatographic
Purity	> 95% as determined by SDS-PAGE.
Storage Buffer	Solution (1 mg/mL) containing 1X PBS, pH 7.4, 10% glycerol.
Storage Instruction	Store at 4°C for 2-4 weeks and should be stored at -20°C to -80°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid repeated freeze/thaw cycles.

Applications

- SDS-PAGE

Gene Info — TNF

Entrez GeneID	7124
Protein Accession#	P01375

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Gene Name	TNF
Gene Alias	DIF, TNF-alpha, TNFA, TNFSF2
Gene Description	tumor necrosis factor (TNF superfamily, member 2)
Omim ID	157300 191160 248310 600807 611162
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a multifunctional proinflammatory cytokine that belongs to the tumor necrosis factor (TNF) superfamily. This cytokine is mainly secreted by macrophages. It can bind to, and thus functions through its receptors TNFRSF1A/TNFR1 and TNFRSF1B/TNFBR. This cytokine is involved in the regulation of a wide spectrum of biological processes including cell proliferation, differentiation, apoptosis, lipid metabolism, and coagulation. This cytokine has been implicated in a variety of diseases, including autoimmune diseases, insulin resistance, and cancer. Knockout studies in mice also suggested the neuroprotective function of this cytokine. [provided by RefSeq
Other Designations	APC1 protein|OTTHUMP00000029281|OTTHUMP00000037669|TNF superfamily, member 2|TNF, macrophage-derived|TNF, monocyte-derived|cachectin|tumor necrosis factor alpha

Pathway

- Adipocytokine signaling pathway
- Allograft rejection
- Amyotrophic lateral sclerosis (ALS)
- Apoptosis
- Asthma
- Cytokine-cytokine receptor interaction
- Fc epsilon RI signaling pathway
- Graft-versus-host disease
- Hematopoietic cell lineage
- Hypertrophic cardiomyopathy (HCM)
- MAPK signaling pathway
- Natural killer cell mediated cytotoxicity
- Systemic lupus erythematosus

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- T cell receptor signaling pathway
- TGF-beta signaling pathway
- Toll-like receptor signaling pathway
- Type I diabetes mellitus
- Type II diabetes mellitus

Disease

- Abortion
- Abscess
- Absenteeism
- Acne Vulgaris
- Acquired Immunodeficiency Syndrome
- Acute Disease
- Acute Lung Injury
- Adenocarcinoma
- Adenoma
- Adenomatous Polyps
- Adrenal Gland Neoplasms
- Aggressive Periodontitis
- AIDS Dementia Complex
- AIDS-Related Opportunistic Infections
- Albuminuria
- Alcoholism

- alpha 1-Antitrypsin Deficiency
- Alpha-1-antitrypsin deficiency

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- alpha-Thalassemia
- Alphavirus Infections
- Alveolar Bone Loss
- Alveolitis
- Alzheimer disease
- Amphetamine-Related Disorders
- Amyloidosis
- Amyotrophic lateral sclerosis
- Anemia
- Aneurysm
- Angina
- Angina Pectoris
- Anorexia
- Anorexia Nervosa
- Anthracosis
- Antiphospholipid Syndrome
- Anus Diseases
- Aortic Aneurysm
- Aortic Diseases
- Aortic Rupture
- Appendicitis
- Appetite
- Arterial Occlusive Diseases
- Arteriosclerosis
- Arteriovenous Malformations
- Arthritis

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- Aspergillosis
- Asphyxia Neonatorum
- Asthenozoospermia
- Asthma
- Atherosclerosis
- Atrial Fibrillation
- Atrophy
- Attention
- Attention Deficit Disorder with Hyperactivity
- Autistic Disorder
- Autoimmune Diseases
- Autoimmune polyglandular syndrome
- Bacteremia
- Bacterial Infections
- Behcet Syndrome
- Berylliosis
- beta-Thalassemia
- Biliary Tract Neoplasms
- Bipolar Disorder
- Birth Weight
- Blood Coagulation Disorders
- Body Weight
- Bone Marrow Diseases
- Bone Resorption
- Boutonneuse Fever
- Brain Ischemia

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- Breast cancer
- Breast Diseases
- Breast Neoplasms
- Bronchial Hyperreactivity
- Bronchiectasis
- Bronchiolitis
- Bronchiolitis Obliterans
- Bronchitis
- Bronchopneumonia
- Bronchopulmonary Dysplasia
- Brucellosis
- Burkitt lymphoma
- Burns
- Byssinosis
- Cachexia
- Cadaver
- Calcinosis
- Carcinoma
- Cardiomyopathies
- Cardiomyopathy
- Cardiovascular Diseases
- Carotid Artery Diseases
- Carotid Stenosis
- Celiac Disease
- Cerebral Hemorrhage
- Cerebral Infarction

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- Cerebral Palsy
- Cerebrovascular Accident
- Cerebrovascular Disorders
- Cervical Intraepithelial Neoplasia
- Chagas Cardiomyopathy
- Chagas Disease
- Chlamydia Infections
- Chlamydophila Infections
- Cholangitis
- Choreatic Disorders
- Chorioamnionitis
- Chronic Disease
- Chronic Periodontitis
- Clonorchiasis
- Cognition
- Colitis
- Colon cancer
- Colonic Neoplasms
- Colonic Polyps
- Colorectal Neoplasms
- Common Cold
- Communicable Diseases
- Community-Acquired Infections
- Connective Tissue Diseases
- Constipation
- Constriction

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- Coronary Aneurysm
- Coronary Artery Disease
- Coronary Disease
- Coronary Restenosis
- Coronary Stenosis
- Coronary Vessel Anomalies
- Critical Illness
- Crohn Disease
- Cross Infection
- Cutaneous Fistula
- Cystic fibrosis
- Cytomegalovirus Retinitis
- Delayed Graft Function
- Dementia
- Dengue
- Dengue Hemorrhagic Fever
- Dental Plaque
- Depressive Disorder
- Dermatitis
- Dermatomyositis
- Diabetes
- Diabetes Complications
- Diabetes Mellitus
- Diabetic Angiopathies
- Diabetic Nephropathies
- Diabetic Neuropathies

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- Diabetic Retinopathy
- Diarrhea
- Discrimination (Psychology)
- Disease Models
- Disease Progression
- Disease Susceptibility
- Diseases in Twins
- Down Syndrome
- Drug Eruptions
- Drug Hypersensitivity
- Drug Toxicity
- Ductus Arteriosus
- Duodenal Diseases
- Duodenal Ulcer
- Dyslipidemias
- Eclampsia
- Eczema
- Edema
- Embryo Loss
- Encephalitis
- Encephalomyelitis
- Endometriosis
- Endotoxemia
- Enterocolitis
- Epidermal Necrolysis
- Epilepsy

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- Epstein-Barr Virus Infections
- Erythema
- Erythema Nodosum
- Esophageal Neoplasms
- Esophagitis
- Exanthema
- Exfoliation Syndrome
- Eye Diseases
- Fabry Disease
- Familial Mediterranean fever
- Fatigue
- Fatigue Syndrome
- Fatty Liver
- Femur Head Necrosis
- Fetal Diseases
- Fetal Growth Retardation
- Fetal Membranes
- Fever
- Fibrocystic Breast Disease
- Fibrosis
- Food Hypersensitivity
- Fractures
- Fungemia
- Gallbladder Neoplasms
- Gastritis
- Gastroenteritis

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- Gastroesophageal Reflux
- Gastrointestinal Diseases
- Gastrointestinal Neoplasms
- Genetic Diseases
- Genetic Predisposition to Disease
- Genomic Instability
- Gingival Hemorrhage
- Gingivitis
- Glaucoma
- Glomerulonephritis
- Glomerulosclerosis
- Glossitis
- Glucose Intolerance
- Glucose Metabolism Disorders
- Glucosephosphate Dehydrogenase Deficiency
- Gout
- Graft vs Host Disease
- Gram-Negative Bacterial Infections
- Granuloma
- Graves Disease
- Graves Ophthalmopathy

- Growth Disorders
- Guillain-Barre Syndrome
- Hantavirus Pulmonary Syndrome
- Hashimoto Disease

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- Head and Neck Neoplasms
- Hearing Loss
- Heart Block
- Heart Defects
- Heart Diseases
- Heart Valve Diseases
- Helicobacter Infections
- HELLP Syndrome
- Hematologic Diseases
- Hematologic Neoplasms
- Hemochromatosis
- Hemophilia A
- Hemorrhage
- Hemorrhagic Fever with Renal Syndrome
- Hepatitis
- Hepatitis B
- Hepatitis C
- Hereditary hemochromatosis
- HIV Infections
- HIV Seropositivity
- HIV-Associated Lipodystrophy Syndrome
- Hodgkin Disease
- HTLV-I Infections
- Hyperglycemia
- Hyperlipidemias
- Hypersensitivity

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- Hypertension
- Hypertriglyceridemia
- Hypertrophy
- Hyperuricemia
- Hypoxia-Ischemia
- Idiopathic Pulmonary Fibrosis
- IgA Deficiency
- Infant
- Infection
- Infectious Mononucleosis
- Infertility
- Inflammation
- Inflammatory Bowel Diseases
- Insulin Resistance
- Intervertebral Disk Displacement
- Intracranial Aneurysm
- Intracranial Arteriosclerosis
- Intracranial Arteriovenous Malformations
- Intracranial Hemorrhages
- Iridocyclitis
- Iron Overload
- Irritable Bowel Syndrome
- Kidney Diseases
- Kidney Failure
- Kidney Neoplasms
- Laryngeal Neoplasms

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- Leiomyoma
- Leishmaniasis
- Leprosy
- Leptospirosis
- Leukemia
- Leukemia-Lymphoma
- Lichen Planus
- Limb Deformities
- Lipodystrophy
- Liver Cirrhosis
- Liver Diseases
- Liver Failure
- Liver Neoplasms
- Low Tension Glaucoma
- Lung carcinoma
- Lung Diseases
- Lung Neoplasms
- Lupus Erythematosus
- Lupus Vasculitis
- Lymphadenitis
- Lymphatic Metastasis
- Lymphocytosis
- Lymphohistiocytosis
- Lymphoma
- Lymphoproliferative Disorders
- Malaria

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- Malignant melanoma
- Measles
- Melanoma
- Memory
- Memory Disorders
- Meningococcal Infections
- Mental Disorders
- Mental Processes
- Mental Recall
- Metabolic Syndrome X
- Metaplasia
- Migraine Disorders
- Migraine with Aura
- Migraine without Aura
- Mixed Connective Tissue Disease
- Mood Disorders
- Mouth Neoplasms
- Mucocutaneous Lymph Node Syndrome
- Multiple endocrine neoplasia
- Multiple Myeloma
- Multiple Organ Failure
- Multiple Sclerosis
- Multiple System Atrophy
- Multiple Trauma
- Mumps
- Muscular Atrophy

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- Muscular Diseases
- Musculoskeletal Diseases
- Myasthenia Gravis
- Mycobacterium avium-intracellulare Infection
- Mycobacterium Infections
- Myelodysplastic Syndromes
- Myocardial Infarction
- Myocardial Ischemia
- Myocarditis
- Myositis
- Narcolepsy
- NARP
- Nasal Polyps
- Nasopharyngeal Neoplasms
- Neoplasm Invasiveness
- Neoplasm Metastasis
- Neoplasm Recurrence
- Neoplasms
- Nephrosis
- Nephrotic Syndrome
- Neuroendocrine Tumors
- Neurofibromatosis
- Neuropsychological Tests
- Neutropenia
- Nuchal Cord
- Obesity

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- Obsessive-Compulsive Disorder
- Obstetric Labor
- Occupational Diseases
- Ocular Hypertension
- Oligospermia
- Ophthalmia
- Oral Submucous Fibrosis
- Oral Ulcer
- Osteoarthritis
- Osteolysis
- Osteomyelitis
- Osteoporosis
- Osteosarcoma
- Otitis Media
- Otorhinolaryngologic Neoplasms
- Ovarian cancer
- Ovarian Failure
- Ovarian Neoplasms
- Overweight
- Pain
- Pancreatic cancer
- Pancreatic Neoplasms
- Pancreatitis
- Papillomavirus Infections
- Paracoccidioidomycosis
- Paraparesis

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- Paraproteinemias
- Parasitemia
- Parasitic Diseases
- Paratyphoid Fever
- Parkinson disease
- Parvoviridae Infections
- Pelvic Pain
- Pemphigoid
- Pemphigus
- Peptic Ulcer
- Periapical Periodontitis
- Periodontal Attachment Loss
- Periodontal Diseases
- Periodontal Pocket
- Periodontitis
- Peripheral Vascular Diseases
- Pharyngeal Neoplasms
- Photosensitivity Disorders
- Picornaviridae Infections
- Pneumoconiosis
- Pneumonia
- Polycystic kidney disease
- Polycystic Ovary Syndrome
- Polyendocrinopathies
- Polymyalgia Rheumatica
- Polymyositis

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- Postoperative Complications
- Postoperative Hemorrhage
- Pouchitis
- Precancerous Conditions
- Prediabetic State
- Pre-Eclampsia
- Pregnancy Complications
- Premature Birth
- Prenatal Exposure Delayed Effects
- Prostate cancer
- Prostatic Hyperplasia
- Prostatic Neoplasms
- Prostatitis
- Prosthesis Failure
- Proteinuria
- Prurigo
- Pseudomonas Infections
- Psoriasis
- Psychiatric Status Rating Scales
- Psychometrics
- Psychomotor Performance
- Psychotic Disorders
- Pterygium
- Puberty
- Puerperal Disorders

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- Pulmonary Disease
- Pulmonary Emphysema
- Pulmonary Fibrosis
- Purpura
- Q Fever
- Radiation Injuries
- Radiation Pneumonitis
- Radius Fractures
- Rectal Fistula
- Rectal Neoplasms
- Recurrence
- Reflex Sympathetic Dystrophy
- Renal Artery Obstruction
- Renal Insufficiency
- Reperfusion Injury
- Respiratory Distress Syndrome
- Respiratory Hypersensitivity
- Respiratory Insufficiency
- Respiratory Sounds
- Respiratory Syncytial Virus Infections
- Respiratory Tract Diseases
- Respiratory Tract Infections
- Retinal Detachment
- Retinal Vein Occlusion
- Retinopathy of Prematurity
- Retroperitoneal Fibrosis

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- Rhabdomyolysis
- Rheumatic Diseases
- Rheumatic Fever
- Rheumatic Heart Disease
- Rheumatoid Nodule
- Rhinitis
- Rubella
- Rupture
- Sarcoidosis
- Sarcoma
- Schistosomiasis japonica
- Schistosomiasis mansoni
- Schizophrenia
- Schizophrenic Psychology
- Sciatica
- Scleroderma
- Seizures
- Seminoma
- Sepsis
- Severe Acute Respiratory Syndrome
- Severe combined immunodeficiency
- Shock
- Silicosis
- Sinusitis
- Skin Diseases
- Skin Neoplasms

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- Skin Ulcer
- Sleep Apnea
- Sleep Apnea Syndromes
- Sleep Deprivation
- Sleep Disorders
- Small Cell Lung Carcinoma
- Spondylarthritis
- Spondylarthropathies
- Spondylitis
- Staphylococcal Infections
- Stevens-Johnson Syndrome
- Stomach Diseases
- Stomach Neoplasms
- Stomach Ulcer
- Stomatitis
- Streptococcal Infections
- Stress
- Stroke
- Subarachnoid Hemorrhage
- Substance Withdrawal Syndrome
- Substance-Related Disorders
- Sudden Infant Death
- Surgical Wound Infection
- Syndrome
- Systemic Inflammatory Response Syndrome
- Systemic Vasculitis

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- Temporal Arteritis
- Tension-Type Headache
- Testicular Neoplasms
- Thalassemia
- Thoracic Neoplasms
- Thrombophilia
- Thrombosis
- Thymoma
- Thymus Neoplasms
- Thyroid Diseases
- Thyroiditis
- Tobacco Use Disorder
- Tooth Diseases
- Tooth Loss
- Trachoma
- Translocation
- Trypanosomiasis
- Tuberculosis
- Tumor Virus Infections
- Typhoid Fever
- Urinary Bladder Neoplasms
- Urinary Calculi
- Urinary Tract Infections
- Urticaria
- Uterine Cervical Dysplasia
- Uterine Cervical Incompetence

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- Uterine Cervical Neoplasms
- Uterine Neoplasms
- Uveitis
- Vaginal Diseases
- Vaginosis
- Vascular Diseases
- Vasculitis
- Venous Thrombosis
- Ventricular Dysfunction
- Verbal Learning
- Vesico-Ureteral Reflux
- Viremia
- Vitiligo
- Vitreoretinopathy
- Waldenstrom Macroglobulinemia
- Wegener Granulomatosis
- Weight Gain
- Weight Loss
- Werner syndrome
- Wounds
- Wounds and Injuries

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