Bioactive

APOE (Human) Recombinant Protein

Catalog # P8428 Size 100 ug

Specification

Product Description	Human APOE (P02649, 19 a.a. - 317 a.a.) partial-length recombinant protein with His-tag at N-terminal expressed in *Escherichia coli*.
Sequence	MHHHHHHKVEQAVETEPEPELRQQTEWQSGQRWELALGRFWDYLRWVQTLSEQVQEELLSSQ VTQELRALMDETMKELKAYKSELEEQLTPVAEETRARLSKELQAAQARLGADMEDVCGRLVQYR GEVQAMLGQSTEELRVRLASHLRKLRKRLLRDADDLQKRLAVYQAGAREGAERGLSAIRERLGP LVEQGRVRAATVGSLAGQPLQERAQAWGERLRARMEEMGSRTRDRLDEVKEQVAEVRAKLEE QAQQIRLQAEAFQARLKSWFEPLVEDMQRQWAGLVEKVQAAVGTSAAPVPSD.
Host	Escherichia coli
Theoretical MW (kDa)	35.2
Form	Liquid
Preparation Method	*Escherichia coli* expression system
Purity	> 95% by SDS-PAGE
Activity	Immobilized rHuApoE3 binds to rMuVLDLR with EC_{50} less than 0.075-0.375 ug/mL.
Storage Buffer	10mM MOPS, 50mM NaCl, 0.2 %(w/v) CHAPS and 1mM TCEP, PH 7.5
Storage Instruction	Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Applications

- Functional Study
- SDS-PAGE

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Gene Info — APOE

Entrez GeneID	348
Protein Accession#	P02649
Gene Name	APOE
Gene Alias	AD2, LPG, MGC1571, apoprotein
Gene Description	apolipoprotein E
Omim ID	104310 107741 269600 603075
Gene Ontology	Hyperlink
Gene Summary	Chylomicron remnants and very low density lipoprotein (VLDL) remnants are rapidly removed fro m the circulation by receptor-mediated endocytosis in the liver. Apolipoprotein E, a main apoprot ein of the chylomicron, binds to a specific receptor on liver cells and peripheral cells. ApoE is ess ential for the normal catabolism of triglyceride-rich lipoprotein constituents. The APOE gene is ma pped to chromosome 19 in a cluster with APOC1 and APOC2. Defects in apolipoprotein E result in familial dysbetalipoproteinemia, or type III hyperlipoproteinemia (HLP III), in which increased pla sma cholesterol and triglycerides are the consequence of impaired clearance of chylomicron and VLDL remnants. [provided by RefSeq
Other Designations	apolipoprotein E3

Disease

- Abortion
- Achievement
- Acquired Immunodeficiency Syndrome
- Acute Disease
- Adenoma
- AIDS Dementia Complex
- AIDS-Related Opportunistic Infections
- Akathisia
- Albuminuria

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- Alcohol Amnestic Disorder
- Alcohol Withdrawal Seizures
- Alcoholism
- Alcohol-Related Disorders
- Alzheimer disease
- Amnesia
- Amyloid Neuropathies
- Amyloidosis
- Amyotrophic lateral sclerosis
- Anemia
- Aneurysm
- Angina
- Angina Pectoris
- Anomia
- Anoxia
- Anticipation
- Anxiety Disorders
- Aortic Aneurysm
- Aortic Diseases
- Aortic Valve Stenosis
- Aphasia
- Appetite
- Aptitude
- Arteriosclerosis
- Arteriovenous Malformations
- Arthritis

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- Association Learning
- Atherosclerosis
- Atrial Fibrillation
- Atrophy
- Attention
- Attention Deficit Disorder with Hyperactivity
- Auditory Perception
- Auditory Perceptual Disorders
- Autistic Disorder
- Awareness
- Basal Ganglia Diseases
- Behcet Syndrome
- beta-Thalassemia
- Biliary Tract Neoplasms
- Bipolar Disorder
- Birth Weight
- Blood Coagulation Disorders
- Body Weight
- Bone Diseases
- Bone Resorption
- Brain Concussion
- Brain Damage
- Brain Diseases
- Brain Edema
- Brain Infarction
- Brain Injuries

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- Brain Ischemia
- Breast cancer
- Breast Neoplasms
- CADASIL
- Cadaver
- Calcinosis
- Candidiasis
- Carcinoma
- Cardiomegaly
- Cardiomyopathy
- Cardiovascular Diseases
- Carotid Artery Diseases
- Carotid Artery Thrombosis
- Carotid Stenosis
- Cataract
- Cellulitis
- Central Nervous System Diseases
- Cerebral Amyloid Angiopathy
- Cerebral Hemorrhage
- Cerebral Infarction
- Cerebral Palsy
- Cerebrovascular Accident
- Cerebrovascular Disorders
- Child Behavior Disorders
- Child Development Disorders
- Chlamydophila Infections

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- Choice Behavior
- Cholecystolithiasis
- Cholelithiasis
- Cholestasis
- Chorioamnionitis
- Choroid Diseases
- Choroidal Neovascularization
- Chromosome Aberrations
- Chronic Disease
- Cleft Lip
- Cleft Palate
- Cognition
- Cognition Disorders
- Colitis
- Colon cancer
- Colonic Neoplasms
- Color Perception
- Colorectal Neoplasms
- Combat Disorders
- Community Mental Health Services
- Concept Formation
- Confusion
- Congenital Abnormalities
- Constriction
- Coronary Artery Disease

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- Coronary Disease
- Coronary Restenosis
- Coronary Stenosis
- Craniocerebral Trauma
- Creutzfeldt-Jakob Syndrome
- Critical Illness
- Cross Infection
- Cues
- Cytomegalovirus Infections
- Death
- Decision Making
- Delirium
- Dementia
- Depressive Disorder
- Developmental Disabilities
- Diabetes
- Diabetes Complications
- Diabetes Mellitus
- Diabetic Angiopathies
- Diabetic Nephropathies
- Diabetic Neuropathies
- Diabetic Retinopathy
- Diarrhea
- Differential Threshold
- Discrimination (Psychology)
- Discrimination Learning
- Disease Progression

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- Disease Susceptibility
- Diseases in Twins
- Disorders of Excessive Somnolence
- Dominance
- Down Syndrome
- Ductus Arteriosus
- Dyslipidemias
- Dystonia
- Dystonic Disorders
- Edema
- Electroconvulsive Therapy
- Encephalitis
- Epilepsy
- Executive Function
- Exfoliation Syndrome
- Exophthalmos
- Fatigue
- Fatty Liver
- Fetal Death
- Fetal Diseases
- Fetal Growth Retardation
- Fetal Membranes
- Fetal Nutrition Disorders
- Forearm Injuries
- Fractures
- Frontotemporal Dementia

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- Frontotemporal Lobar Degeneration
- Functional Laterality
- Gallbladder Diseases
- Gallstones
- Genetic Diseases
- Genetic Predisposition to Disease
- Genetics
- Geographic Atrophy
- Geriatric Psychiatry
- Glaucoma
- Glomerulonephritis
- Glomerulosclerosis
- Growth Disorders
- Guillain-Barre Syndrome
- Hallucinations
- Head Injuries
- Hearing Loss
- Heart Arrest
- Heart Defects
- Heart Diseases
- Hemiplegia
- Hemochromatosis
- Hemorrhage
- Hepatitis
- Hepatitis B
- Hepatitis C

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- Hepatolenticular Degeneration
- Hereditary hemochromatosis
- Herpes Genitalis
- Herpes Labialis
- Herpes Simplex
- Herpesviridae Infections
- Hip Fractures
- HIV Infections
- HIV Seropositivity
- Holoprosencephaly
- Huntington disease
- Hypercholesterolemia
- Hyperglycemia
- Hyperhomocysteinemia
- Hyperinsulinism
- Hyperlipidemia
- Hyperlipidemias
- Hyperlipoproteinemia Type II
- Hyperlipoproteinemia Type III
- Hyperlipoproteinemia Type IV
- Hyperlipoproteinemias
- Hypertension
- Hypertriglyceridemia
- Hypertrophy
- Hypoglycemia
- Hypopituitarism

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- Hypotension
- Hypothyroidism
- Hypoxia-Ischemia
- Infant
- Infarction
- Inflammation
- Inflammatory Bowel Diseases
- Inhibition (Psychology)
- Insulin Resistance
- Intelligence Tests
- Interview
- Intracranial Aneurysm
- Intracranial Arteriosclerosis
- Intracranial Hemorrhages
- Intracranial Hypertension
- Intracranial Thrombosis
- Iron Metabolism Disorders
- Iron Overload
- Ischemia
- Ischemic Attack
- Ketosis
- Kidney Diseases
- Kidney Failure
- Kidney Neoplasms
- Language Tests

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- Lead Poisoning
- Learning
- Learning Disorders
- Lewy Body Disease
- Lipid Metabolism Disorders
- Liver Cirrhosis
- Lung Neoplasms
- Lupus Erythematosus
- Lupus Vasculitis
- Lymphoma
- Macular Degeneration
- Macular Edema
- Malaria
- Malnutrition
- Memory
- Memory Disorders
- Mental Disorders
- Mental Health
- Mental Processes
- Mental Recall
- Mental Status Schedule
- Mercury Poisoning
- Metabolic Diseases
- Metabolic Syndrome X
- Microsatellite Instability
- Migraine Disorders

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- Migraine with Aura
- Migraine without Aura
- Mitral Valve Stenosis
- Mood Disorders
- Motor Skills
- Mouth
- Multiple Sclerosis
- Muscle Rigidity
- Muscular Diseases
- Myasthenia Gravis
- Myocardial Infarction
- Myocardial Ischemia
- Myoclonus
- Myositis
- Narcolepsy
- Neoplasms
- Nephrosis
- Nephrotic Syndrome
- Nerve Degeneration
- Nervous System Diseases
- Neurodegenerative Diseases
- Neuropsychological Tests
- Nutrition Disorders
- Obesity
- Obsessive-Compulsive Disorder
- Obstetric Labor

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- Olfaction Disorders
- Optic Neuritis
- Orientation
- Osteoporosis
- Ovarian Failure
- Overweight
- Paired-Associate Learning
- Pancreatitis
- Panic Disorder
- Paramyxoviridae Infections
- Parkinson disease
- Parkinsonian Disorders
- Pattern Recognition
- Perception
- Perceptual Disorders
- Periodontitis
- Peripheral Nervous System Diseases
- Peripheral Vascular Diseases
- Persistent Vegetative State
- Personality Inventory
- Phenylketonuria
- Phenylketonurias
- Pick Disease of the Brain
- Plaque
- Polycystic Kidney
- Polycystic kidney disease

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- Polycystic Ovary Syndrome
- Postmortem Changes
- Postoperative Complications
- Pre-Eclampsia
- Pregnancy Complications
- Premature Birth
- Prenatal Exposure Delayed Effects
- Prion Diseases
- Problem Solving
- Prostate cancer
- Prostatic Neoplasms
- Psoriasis
- Psychiatric Status Rating Scales
- Psychological Tests
- Psychology
- Psychometrics
- Psychomotor Agitation
- Psychomotor Disorders
- Psychomotor Performance
- Psychotic Disorders
- Puberty
- Pulmonary Disease
- Pulmonary Embolism
- Reaction Time
- Recognition (Psychology)
- Rectal Neoplasms

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- Recurrence
- Renal Insufficiency
- Retinal Diseases
- Rett Syndrome
- Sarcoma
- Schizophrenia
- Schizophrenic Psychology
- Sclerosis
- Seizures
- Sensation Disorders
- Sensory Thresholds
- Sepsis
- Serial Learning
- Shock
- Skull Fractures
- Sleep Apnea
- Sleep Apnea Syndromes
- Sleep Deprivation
- Sleep Disorders
- Sleep Stages
- Smell
- Smith-Lemli-Opitz Syndrome
- Space Perception
- Speech Perception
- Spina Bifida Cystica
- Spinal Cord Diseases

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- Spinal Fractures
- Spinal Osteophytosis
- Spondylosis
- Stomatitis
- Stress
- Stroke
- Subarachnoid Hemorrhage
- Substance Withdrawal Syndrome
- Sudden Infant Death
- Supranuclear Palsy
- Syndrome
- Task Performance and Analysis
- Tauopathies
- Tension-Type Headache
- Tetralogy of Fallot
- Thalassemia
- Thinking
- Thrombophilia
- Thrombosis
- Tinea Versicolor
- Tobacco Use Disorder
- Tooth Loss
- Torticollis
- Trail Making Test
- Tremor
- Trisomy

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- Unconsciousness
- Uremia
- Urinary Bladder Neoplasms
- Vascular Diseases
- Vasospasm
- Venous Thrombosis
- Ventricular Dysfunction
- Verbal Learning
- Vertebral Artery Dissection
- Virilism
- Vision
- Visual Perception
- Vitamin B 12 Deficiency
- Vitamin K Deficiency
- Wechsler Scales
- Weight Gain
- Weight Loss
- Werner syndrome
- Xanthomatosis
- Yin Deficiency

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