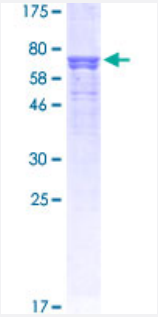
Full-Length

AGT (Human) Recombinant Protein (P03)

Catalog # H00000183-P03 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human AGT full-length ORF (AAH11519.1, 34 a.a. - 485 a.a.) recombinant protein with GST tag at N-terminal.
Sequence	DRVYIHPFHLVIHNESTCEQLAKANAGKPKDPTFIPAPIQAKTSPVDEKALQDQLVLVAAKLDTED KLRAAMVGMLANFLGFRIYGMHSELWGVVHGATVLSPTAVFGTLASLYLGALDHTADRLQAILGV PWKDKNCTSRLDAHKVLSALQAVQGLLVAQGRADSQAQLLLSTVVGVFTAPGLHLKQPFVQGL ALYTPVVLPRSLDFTELDVAAEKIDRFMQAVTGWKTGCSLTGASVDSTLAFNTYVHFQGKMKGFS LLAEPQEFWVDNSTSVSVPMLSGMGTFQHWSDIQDNFSVTQVSFTESACLLLIQPHYASDLDKV EGLTFQQNSLNWMKKLSPRTIHLTMPQLVLQGSYDLQDLLAQAELPAILHTELNLQKLSNDRIRVG EVLNSIFFELEADEREPTESTQQLNKPEVLEVTLNRPFLFAVYDQSATALHFLGRVANPLSTA
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	77
Interspecies Antigen Sequence	Rat (64)
Preparation Method	*in vitro* wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue

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Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — AGT

Entrez GeneID	183
GeneBank Accession#	BC011519.1
Protein Accession#	AAH11519.1
Gene Name	AGT
Gene Alias	ANHU, FLJ92595, FLJ97926, SERPINA8
Gene Description	angiotensinogen (serpin peptidase inhibitor, clade A, member 8)
Omim ID	106150 145500 267430
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene, pre-angiotensinogen or angiotensinogen precursor, is expressed in the liver and is cleaved by the enzyme renin in response to lowered blood pressure. The resulting product, angiotensin I, is then cleaved by angiotensin converting enzyme (ACE) to generate the physiologically active enzyme angiotensin II. The protein is involved in maintaining blood pressure and in the pathogenesis of essential hypertension and preeclampsia. Mutations in this gene are associated with susceptibility to essential hypertension, and can cause renal tubular dysgenesis, a severe disorder of renal tubular development. Defects in this gene have also been associated with non-familial structural atrial fibrillation, and inflammatory bowel disease. [provided by RefSeq

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Other Designations	OTTHUMP00000035878|alpha-1 antiproteinase, antitrypsin|angiotensin I|angiotensin II|angiotensinogen|pre-angiotensinogen|serine (or cysteine) proteinase inhibitor

Pathway

- Hypertrophic cardiomyopathy (HCM)
- Renin-angiotensin system
- Vascular smooth muscle contraction

Disease

- Abortion
- Abruptio Placentae
- Acromegaly
- Acute Disease
- Adenocarcinoma
- Aggressive Periodontitis
- Albuminuria
- Alcoholism
- Altitude Sickness
- Alzheimer disease
- Amyotrophic lateral sclerosis
- Anaphylaxis
- Anemia
- Aneurysm
- Angina
- Angina Pectoris
- Aortic Aneurysm

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- Arrhythmias
- Arteriosclerosis
- Atherosclerosis
- Atrial Fibrillation
- Attention
- Attention Deficit Disorder with Hyperactivity
- Bipolar Disorder
- Birth Weight
- Body Weight
- Brain Infarction
- Brain Injuries
- Brain Ischemia
- Breast cancer
- Breast Neoplasms
- Calcinosis
- Carcinoma
- Cardiomegaly
- Cardiomyopathies
- Cardiomyopathy
- Cardiovascular Diseases
- Carotid Artery Diseases
- Carotid Stenosis
- Cerebral Arterial Diseases
- Cerebral Hemorrhage
- Cerebral Infarction
- Cerebral Palsy

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- Cerebrovascular Accident
- Cerebrovascular Disorders
- Chorioamnionitis
- Chromosome Deletion
- Chronic Disease
- Chronic Periodontitis
- Cognition Disorders
- Connective Tissue Diseases
- Constriction
- Coronary Artery Disease
- Coronary Disease
- Coronary Restenosis
- Coronary Stenosis
- Coronary Thrombosis
- Creativeness
- Death
- Dementia
- Depressive Disorder
- Diabetes Complications
- Diabetes Mellitus
- Diabetic Angiopathies
- Diabetic Nephropathies
- Diabetic Neuropathies
- Diabetic Retinopathy
- Discrimination (Psychology)
- Disease Progression

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- Disease Susceptibility
- DNA Damage
- Dyslipidemias
- Eclampsia
- Edema
- Emergencies
- Esophageal and Gastric Varices
- Fatty Liver
- Fetal Growth Retardation
- Fetal Membranes
- Fibromuscular Dysplasia
- Fibrosis
- Genetic Predisposition to Disease
- Glaucoma
- Glomerulonephritis
- Glucose Intolerance
- Hearing Loss
- Heart Defects
- Heart Failure
- Helicobacter Infections
- Hemochromatosis
- Hemolytic-Uremic Syndrome
- Hemorrhage
- Hepatitis B
- Hepatitis C
- Hereditary hemochromatosis

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- Hernia
- Hydronephrosis
- Hyperaldosteronism
- Hypercholesterolemia
- Hyperkalemia
- Hyperlipidemias
- Hyperlipoproteinemia Type I
- Hyperlipoproteinemia Type II
- Hypertension
- Hypertriglyceridemia
- Hypertrophy
- Hypoglycemia
- Idiopathic Pulmonary Fibrosis
- Inflammation
- Insulin Resistance
- Intracranial Arteriosclerosis
- Kidney Diseases
- Kidney Failure
- Kidney Neoplasms
- Leukoaraiosis
- Liver Cirrhosis
- Liver Diseases
- Long QT syndrome
- Lung Neoplasms
- Lupus Erythematosus
- Lupus Nephritis

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- Macular Degeneration
- Marfan syndrome
- Meningococcal Infections
- Mental Disorders
- Metabolic Syndrome X
- Migraine Disorders
- Mitral Valve Insufficiency
- Mitral Valve Prolapse
- Mouth Neoplasms
- Multicystic Dysplastic Kidney
- Myocardial Infarction
- Myocardial Ischemia
- Neoplasms
- Nephritis
- Nephrotic Syndrome
- Neuropsychological Tests
- Neurotic Disorders
- Obesity
- Obstetric Labor
- Osteoporosis
- Otosclerosis
- Ovarian Failure
- Panic Disorder
- Peripheral Vascular Diseases
- Placenta Diseases
- Polycystic Kidney

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- Polycystic kidney disease
- Polycystic Kidney Diseases
- Polycystic Ovary Syndrome
- Polycythemia
- Postoperative Complications
- Pre-Eclampsia
- Pregnancy Complications
- Premature Birth
- Prostate cancer
- Prostatic Neoplasms
- Proteinuria
- Psychiatric Status Rating Scales
- Psychomotor Performance
- Puberty
- Pulmonary Disease
- Purpura
- Recurrence
- Renal Artery Obstruction
- Renal Insufficiency
- Respiratory Distress Syndrome
- Retinal Artery Occlusion
- Retinal Diseases
- Rheumatic Heart Disease
- Rhinitis
- Sleep Apnea
- Stomach Neoplasms

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- Stress
- Stroke
- Substance-Related Disorders
- Syncope
- Syndrome
- Taste
- Thrombophilia
- Thrombosis
- Tobacco Use Disorder
- Uremia
- Ureteral Obstruction
- Urinary Tract Infections
- Vascular Diseases
- Venous Thrombosis
- Ventricular Dysfunction
- Vesico-Ureteral Reflux
- Weight Loss
- Werner syndrome

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