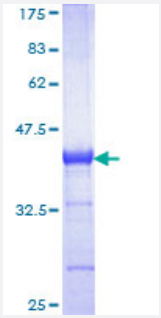
CBS (Human) Recombinant Protein (Q01)

Catalog # H00000875-Q01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human CBS partial ORF (NP_000062, 1 a.a. - 100 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MPSETPQAEVGPTGCPHRSGPHSAKGSLEKGSPEDKEAKEPLWIRPDAPSRCTWQLGRPASESPHHHTAPAKSPKILPDILKKIGDTPMVRINKIGKKFG
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.74
Interspecies Antigen Sequence	Mouse (61); Rat (63)
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.
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 — CBS

Entrez GeneID	875
GeneBank Accession#	NM_000071
Protein Accession#	NP_000062
Gene Name	CBS
Gene Alias	HIP4
Gene Description	cystathionine-beta-synthase
Omim ID	236200
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene acts as a homotetramer to catalyze the conversion of homocyst eine to cystathionine, the first step in the transsulfuration pathway. The encoded protein is allosteri cally activated by adenosyl-methionine and uses pyridoxal phosphate as a cofactor. Defects in thi s gene can cause cystathionine beta-synthase deficiency (CBSD), which can lead to homocystinu ria. [provided by RefSeq
Other Designations	OTTHUMP00000109416|OTTHUMP00000109418|beta-thionase|cystathionine beta-synthase|me thylcysteine synthase|serine sulfhydrase

Pathway

- Cysteine and methionine metabolism
- Glycine
- Metabolic pathways

- Selenoamino acid metabolism

Disease

- Abnormalities
- Adenocarcinoma
- Alzheimer disease
- Aortic Aneurysm
- Arterial Occlusive Diseases
- Arteriosclerosis
- Atherosclerosis
- Attention
- Brain Infarction
- Brain Ischemia
- Brain Neoplasms
- Breast cancer
- Breast Neoplasms
- Calcinosis
- Carcinoma
- Cardiovascular Diseases
- Carotid Artery
- Cerebral Palsy
- Cerebrovascular Accident
- Cerebrovascular Disorders
- Cleft Lip
- Cleft Palate
- Cognition

- Cognition Disorders
- Colorectal Neoplasms
- Connective Tissue Diseases
- Constriction
- Coronary Artery Disease
- Coronary Disease
- Coronary Stenosis
- Data Display
- Diabetes Complications
- Diabetes Mellitus
- Down Syndrome
- Edema
- Esophageal Neoplasms
- Exfoliation Syndrome
- Fetal Diseases
- Gastrointestinal Neoplasms
- Genetic Predisposition to Disease
- Glaucoma
- Heart Defects
- Heart Diseases
- Heart Septal Defects
- Homocystinuria
- Huntington disease
- Hyperhomocysteinemia
- Hypertension
- Infection

- Inflammation
- Intelligence Tests
- Intracranial Aneurysm
- Intracranial Thrombosis
- Kidney Failure
- Leukemia
- Liver Cirrhosis
- Lung Neoplasms
- Lupus Erythematosus
- Lymphoma
- Malnutrition
- Meningioma
- Mental Retardation
- Mental Status Schedule
- Metabolic Diseases
- Metabolic Syndrome X
- Microsatellite Instability
- Migraine Disorders
- Musculoskeletal Diseases
- Myocardial Infarction
- Myocardial Ischemia
- Neoplasms
- Neural Tube Defects
- Neuropsychological Tests
- Obesity
- Osteoporosis

- Parkinson disease
- Pregnancy Complications
- Premature Birth
- Prostate cancer
- Prostatic Neoplasms
- Psychotic Disorders
- Pulmonary Disease
- Recurrence
- Schizophrenia
- Schizophrenic Psychology
- Skin Diseases
- Spinal Dysraphism
- Stomach Neoplasms
- Stroke
- Tobacco Use Disorder
- Urinary Bladder Neoplasms
- Vascular Diseases
- Venous Thrombosis
- Vertebral Artery Dissection
- Werner syndrome