

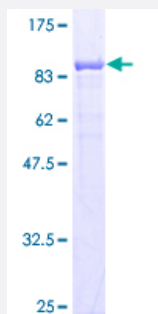
Full-Length

CBS (Human) Recombinant Protein (P02)

Catalog # H00000875-P02

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human CBS full-length ORF (AAH10242, 1 a.a. - 551 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MPSETPQAEVGPTGCPHRSGPHSAKGSLEKGSPEDKEAKEPLWIRPDAPSRCTWQLGRPASE
SPHHHTAPAKSPKILPDILKKIGDTPMVRINKIGKKFGLKCELLAKCEFFNAGGSVKDRISLRMIEDA
ERDGTLPKPGDTIIEPTSGNTGIGLALAAAVRGYRCIIVMPEKMSSEKVDVLRALGAIEVRPTNARFD
SPESHVGVAVRLKNEIPNSHILDQYRNASNPLAHYDTTAEILQQCDGKLDMLVASVGTGGTITGIA
RKLKEKCPGCRIGVDPEGSILAEPEELNQTEQTTYEVEGIGYDFIPTVLDRTVVDKWFKSNDEEAF
TFARMLIAQEGLLCGGSAGSTVAVAVKAAQELQEGQRCVVILPDSVRNYMTKFLSDRWMLQKGF
LKEEDLTEKKPWWWHLRVQELGLSAPLTVLPTTTCGHTIEILREKGFDAQPVVDEAGVILGMVTLG
NMLSSLLAGKVQPSDQVGKVYKQFKQIRLTDTLGRLSHILEMDHFALVVHEQIQYHSTGKSSQRQ
MVFGVVTAIDLLNFVAAQERDQK

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

86.35

Interspecies Antigen Sequence

Mouse (84); Rat (84)

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#	BC010242
Protein Accession#	AAH10242
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 homocystine to cystathionine, the first step in the transsulfuration pathway. The encoded protein is allosterically activated by adenosyl-methionine and uses pyridoxal phosphate as a cofactor. Defects in this gene can cause cystathionine beta-synthase deficiency (CBS), which can lead to homocystinuria. [provided by RefSeq]
Other Designations	OTTHUMP00000109416 OTTHUMP00000109418 beta-thionase cystathionine beta-synthase methylcysteine 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](#)