

Recombinant Human CBS Protein, GST-Tagged

Cat. No. CBS-0471H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CBS full-length ORF (AAH11381.1, 1 a.a. - 551 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	The protein encoded by this gene acts as a homotetramer to catalyze the conversion of homocysteine 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. This gene is a major contributor to cellular hydrogen sulfide production. Multiple alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Feb 2016]
Molecular Mass	86.35 kDa
AA Sequence	MPSETPQAEVGPTGCPHRSGPHSAKGSLEKGSPEDEKEAKEPLWIRPDAPSRCTWQ LGRPASESPHHHTAPAKSPKILPDILKKIGDTPMVRINKIGKKFGLKCELLAKCEFFNA GGSVKDRISLRMIEDAERDGLKPGDTIIEPTSGNTGIGLALAAAVRGYRCIIVMPEKM SSEKVDVLRALGAEIVRTPTNARFDSPEHVGVAVRLKNEIPNSHILDQYRNASNPL AHYDTTAEILQQCDGKLDMLVASVGTGGTITGIARKLKEKCPGCRIGVDPEGSILA EPEELNQTEQTTYEVEGIGYDFIPTVLDRTVVDKWFKSNDEEAFTFARMLIAQEGLLC GGSAGSTVAVAVKAAQELQEGQRCVVILPDSVRNYMTKFLSDRWMLQKGFLKEED

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LTEKKPWWWHLRVQELGLSAPLTVLPTITCGHTIEILREKGFQAPVVDEAGVILGM
 VTGNNMLSSLLAGKVQPSDQVGKVIYKQFKQIRLTDTLGRLSHILEMDHFALVVHEQI
 QYHSTGKSSQRQMVFGVVTAILLLNFVAAQERDQK

Applications

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

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION
Gene Name

CBS cystathionine-beta-synthase [Homo sapiens]

Official Symbol

CBS

Synonyms

CBS; cystathionine-beta-synthase; cystathionine beta-synthase; HIP4; beta-thionase;
 serine sulfhydrase; methylcysteine synthase;

Gene ID

875

mRNA Refseq

NM_000071

Protein Refseq

NP_000062

MIM

613381

UniProt ID

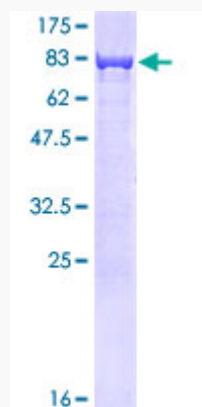
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**Quality Control
Testing**



12.5% SDS-PAGE Stained with Coomassie Blue.

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