

Recombinant Full Length Human CBS Protein, GST-tagged

Cat. No. CBS-2776HF **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	In Vitro Cell Free System
ProteinLength	551 amino acids
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	MPSETPQAEVGPTGCPHRSGPHSAKGSLEKGSPEDKEAKEPLWIRPDAPSRCTWQ LGRPASESPHHHTAPAKSPKILPDILKKIGDTPMVRINKIGKKFGLKCELLAKCEFFNA GGSVKDRISLRMIEDAERDGLKPGDTIIEPTSGNTGIGLALAAAVRGYRCIIVMPEKM SSEKVDVLRALGAEIVRTPTNARFDSPESHVGVAVRLKNEIPNSHILDQYRNASNPL AHYDTTAEILQQCDGKLDMLVASVGTGGTITGIARKLKEKCPGCRIGVDPEGSILA EPEELNQTEQTTYEVEGIGYDFIPTVLDRTVVDKWFKSNDEEAFTFARMLIAQEGLLC

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GGSAGSTVAVAVKAAQELQEGQRCVVILPDSVRNYMTKFLSDRWMLQKGFLKEED
 LTEKKPWWWHLRVQELGLSAPLTVLPTITCGHTIEILREKGFDQAPVVDEAGVILGM
 VTLGNMLSSLLAGKVQPSDQVGKVIYKQFKQIRLTDLTGRLSHILEMDHFALVVHEQI
 QYHSTGKSSQRQMVFVGVVTAIDLLNFVAAQERDQK

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; methylocysteine synthase;

Gene ID 875

mRNA Refseq NM_000071

Protein Refseq NP_000062

MIM 613381

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UniProt ID

P35520

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