

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
Protein Length	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	MPSETPQAEVGP TGCPHRSGPHSAKGSLEKGSPEDEKEAKEPLWIRPDAPSRCTWQ LGRPASESPHHHTAPAKSPKILPDILKKGIDTPMVRINKIGKKFGLKCELLAKCEFFNA GGSVKDRISLRMIEDAERDGLKPGDTIIEPTSGNTGIGLALAAAVRGYRCIIVMPEKM SSEKVDVLRALGAEIVRPTNARFDSPEHVGVAVWRLKNEIPNSHILDQYRNASNPL AHYDTTAEILQQCDGKLDMLVASVGTGGTITGIARKLKEKCPGCRIIGVDPEGSILA EPEELNQTEQTTYEVEGIGYDFIPTVLDRTVVVDKWFKSNDEEAFTFARMLIAQEGLLC

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GGGAGSTVAVAVKAAQELQEGQRCVVILPDSVRNYMTKFLSDRWMLQKGFLKEED
LTEKKPWWWHLRVQELGLSAPLTVLPTITCGHTIEILREKGFDPVDEAGVILGM
VTLGNMLSSLLAGKVQPSDQVGKVIYKQFKQIRLTDTLGRLSHILEMDHFALVVHEQI
QYHSTGKSSQRQMVFGVVT AIDLLNFVAAQERDQK

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

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UniProt ID

P35520

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