

Recombinant Human CBS Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. CBS-5626H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CBS MS Standard C13 and N15-labeled recombinant protein (NP_000062) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	60.6 kDa
AA Sequence	MPSETPQAEVGP TGCPHRSGPHSAKGSLEKGSPEDEKAKEPLWIRPDAPSRCTWQ LGRPASESPHHHTPPAKSPKILPDILKKGIDTPMVRINKIGKKFGLKCELLAKCEFFNA GGSVKDRISLRMIEDAERDGLKPGDTIIPTSGNTGIGLALAAAVRGYRCIIVMPEKM SSEKVDVLRALGAEIVRTP TNARFDSPESHVGVAVRLKNEIPNSHILDQYRNASNPL AHYDTTAEILQQCDGKLDMLVASVGTGGTITGIARKLKEKCPGCRIIGVDPEGSILA EPEELNQTEQTTYEVEGIGYDFIPTVLDRTVVDKWFKSNDEEAFTFARMLIAQEGLLC

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GGGAGSTVAVAVKAAQELQEGQRCVVILPDSVRNYMTKFLSDRWMLQKGFLKEED
LTEKKPWWWHLRVQELGLSAPLTVLPTITCGHTIEILREKGFQAPVVDEAGVILGM
VTLGNMLSSLLAGKVQPSDQVGKVIYKQFKQIRLTDLGRSLHILEMDHFALVVHEQI
QYHSTGKSSQRQMVFVGVVTAIDLLNFVAAQERDQKTRTRPLEQKLISEEDLAANDIL
DYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name CBS cystathionine-beta-synthase [Homo sapiens (human)]

Official Symbol CBS

Synonyms CBS; cystathionine-beta-synthase; cystathionine beta-synthase; HIP4; beta-thionase; serine sulfhydrase; methycysteine synthase;

Gene ID 875

mRNA Refseq NM_000071

Protein Refseq NP_000062

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MIM	613381
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UniProt ID	P35520
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