

Recombinant Full Length Human CBS Protein, C-Flag-tagged

Cat. No. CBS-1191HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human CBS Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	60.4 kDa
AA Sequence	MPSETPQAEVGPTGCPHRSGPHSAKGSLEKGSPEDKEAKEPLWIRPDAPSRCTWQ LGRPASESPHHHTPP AKSPKILPDILKKIGDTPMVRINKIGKKFGLKCELLAKCEFFNA GGSVKDRISLRMIEDAERDGTKPGD TIIPTSGNTGIGLALAAAVRGYRCIIVMPEK MSSEKVDVLRALGAEIVRTPTNARFDSPESHVGVAVRL KNEIPNSHILDQYRNASN PLAHYDTTAEILQQCDGKLDMLVASVGTGGTITGIARKLKEKCPGCRIIGV DPEGSI LAEPEELNQTEQTTYEVEGIGYDFIPTVLDRTVVDKWFKSNDEEAFTFARMLIAQEGL

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LCGGSA GSTVAVAVKAAQELQEGQRCVVILPDSVRNYMTKFLSDRWMLQKGFLKE
EDLTEKKPWWHLRVQELGLS APLTVLPITITCGHTIEILREKGFQAPVVDEAGVIL
GMVTLGNMLSSLLAGKVQPSDQVGKVIYKQFKQI
RLTDTLGRLSHILEMDHFALVVHEQIQYHSTGKSSQRQMVFGVVTAIDLLNFVAAQE
RDQKTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Cysteine and methionine metabolism, Glycine, serine and threonine metabolism, Metabolic pathways, Selenoamino acid metabolism
Full Length	Full L.

GENE INFORMATION

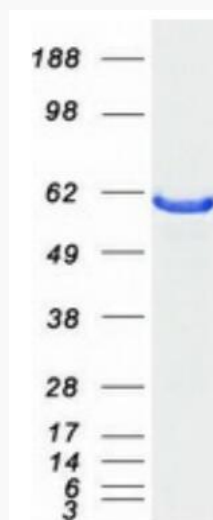
Gene Name	CBS cystathionine beta-synthase [Homo sapiens (human)]
Official Symbol	CBS

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Synonyms	CBSL; HIP4
Gene ID	875
mRNA Refseq	NM_000071.3
Protein Refseq	NP_000062.1
MIM	613381
UniProt ID	P35520



Coomassie blue staining of purified CBS protein.