



# Recombinant Human Cystathionine beta-synthase (CBS), partial

<b>Product Code</b>	CSB-EP004589HU
<b>Relevance</b>	Only known pyridoxal phosphate-dependent enzyme that contains he. Important regulator of hydrogen sulfide, especially in the brain, utilizing cysteine instead of serine to catalyze the formation of hydrogen sulfide. Hydrogen sulfide is a gastratransmitter with signaling and cytoprotective effects such as acting as a neuromodulator in the brain to protect neurons against hypoxic injury .
<b>Abbreviation</b>	Recombinant Human CBS protein, partial
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	P35520
<b>Alias</b>	Beta-thionase;Serine sulfhydrase
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	Greater than 90% as determined by SDS-PAGE.
<b>Sequence</b>	PSETPQAEVGP TGCPHRSGPHSAKGSLEKGSPEDKEAKEPLWIRPDAPSRCT WQLGRPASESPHHHTAPAKSPKILPDILKKIGDTPMVRINKIGKKFGLKCELLAK CEFFNAGGSVKDRISLRMIEDAERDGLKPGDTIIEPTSGNTGIGLALAAAVRG YRCIIVMPEKMSSEKVDVLRALGAEIVRTPTNARFDSPESHVGVAVWRLKNEIPN SHILDQYRNASNPLAHYDTTAEILQQCDGKLDMLVASVGTGGTITGIARKLKE KCPGCRIIGVDPEGSILAEPEELNQTEQTTYEVEGIGYDFIPTVLDRTVVDKWFK SNDEEAFTFARMLIAQEGLLCGGSAGSTVAVAVKAAQELQEGQRCVVILPDSV RNYMTKFLSDRWMLQKGFLEEDLTEKKPWWWHLRVQELGLSAPLTVLPTIT CGHTIEILREKGFQAPVVDEAGVILGMVTLGNMLSSLLAGKVQPSDQVGVKVIY KQFKQIRLTDLGRLSHILEMDHFALVVHEQIQYHSTGKSSQRQMVFGVVTAID LLNFVAAQERDQK
<b>Research Area</b>	Metabolism
<b>Source</b>	E.coli
<b>Target Names</b>	CBS
<b>Expression Region</b>	2-551aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	N-terminal 6xHis-tagged
<b>Mol. Weight</b>	64.5kDa
<b>Protein Length</b>	Partial

