



Recombinant Human Cystathionine beta-synthase (CBS), partial

Product Code	CSB-MP004589HU
Storage	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.
Uniprot No.	P35520
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	PSETPQAEV GPTGCPHRSG PHSAKGSLEK GSPEDKEAKE PLWIRPDAPS RCTWQLGRPA SESPHTHTAP AKSPKILPDI LKKIGDTPMV RINKIGKKFG LKCELLAKCE FFNAGGSVKD RISLRMIEDA ERDGTLPKPGD TIIPTSGNT GIGLALAAAV RGYRCIIVMP EKMSSEKVDV LRALGAEIVR TPTNARFDSP ESHVGVAVRL KNEIPNSHIL DQYRNASNPL AHYDTTAEI LQQCDGKLDL LVASVGTGGT ITGIARKLKE KCPGCRIIGV DPEGSILAEP EELNQTEQTT YEVEGIGYDF IPTVLDRTVV DKWFKSNDEE AFTFARMLIA QEGLLCGGSA GSTVAVAVKA AQELQEGQRC VVILPDSVRN YMTKFLSDRW MLQKGFLKEE DLTEKKPWWW HLRVQELGLS APLTVLPTIT CGHTIEILRE KGFDQAPVVD EAGVILGMVT LGNMLSSLLA GKVQPSDQVG KVIYKQFKQI RLTDTLGRLS HILEMDHFAL VVHEQIQYHS TGKSSQRQMV FGVVTAIDLL NFVAAQERDQ K
Source	Mammalian cell
Target Names	CBS
Protein Names	Recommended name: Cystathionine beta-synthase EC= 4.2.1.22 Alternative name(s): Beta-thionase Serine sulfhydrase
Expression Region	2-551
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Partial
Target Details	This protein 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.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final



concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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