



# Recombinant Mouse Cystathionine beta-synthase (Cbs)

<b>Product Code</b>	CSB-BP849665MO
<b>Abbreviation</b>	Cbs
<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>	Q91WT9
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Mus musculus (Mouse)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	PSGTSQCED GSAGGFQHLDMHSEKRQLEK GPSGDKDRVW IRPDTPSRCT WQLGRAMADS PHYHTVLTKS PKILPDILRK IGNTPMVRIN KISKNAGLKC ELLAKCEFFN AGGSVKDRIS LRMIEDAERA GNLKPGDTII EPTSGNTGIG LALAAVKG Y RCIIVMPEKM SMEKVDV LRA LGAEIVRTP T NARFDSPESH VGVAWRLKNE IPNSHILDQY RNASNPLAHY DDTAEEILQQ CDGKLDMLVA SAGTGGTITG IARKLKEKCP GCKIIGVDPE GSILAEPEEL NQTEQTAYEV EGIGYDFIPT VLDRAVVDKW FKSNDSEDF A FARMLIAQEG LLCGSSGSA MAVAVKAARE LQEGQRCVVI LPDSVRNYMS KFLSDKWMLQ KGFMKEELSV KRPWWWRLRV QELSLSAPLT VLPTVTCEDT IAILREKGF D QAPVVNESGA ILGMVTLGNM LSSLLAGKVR PSDEVCKVLY KQFKPIHLTD TLGTLSHILE MDHFALVVHE QIQSRDQAWS GVVGGPTDCS NGMSSKQQMV FGVVTAIDLL NFVAAREQTQ T
<b>Source</b>	Baculovirus
<b>Target Names</b>	Cbs
<b>Protein Names</b>	Recommended name: Cystathionine beta-synthase EC= 4.2.1.22 Alternative name(s): Beta-thionase Serine sulfhydrase
<b>Expression Region</b>	2-561
<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>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	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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