



Recombinant Mouse Cystathionine beta-synthase (Cbs)

Product Code	CSB-EP849665MO-B
Abbreviation	Cbs
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.	Q91WT9
Product Type	Recombinant Protein
Immunogen Species	Mus musculus (Mouse)
Purity	>85% (SDS-PAGE)
Sequence	PSGTSQCED GSAGGFQHLDMHSEKRQLEK GPSGDKDRVW IRPDTPSRCT WQLGRAMADS PHYHTVLTKS PKILPDILRK IGNTPMVRIN KISKNAGLKC ELLAKCEFFN AGGSVKDRIS LRMIEDAERA GNLKPGDTII EPTSGNTGIG LALAAVKG Y RCIIVMPEKM SMEKVDV LRA LGAEIVRTPT NARFDSPESH VGVAWRLKNE IPNSHILDQY RNASNPLAHY DDTAEEILQQ CDGKLDMLVA SAGTGGTITG IARKLKEKCP GCKIIGVDPE GSILAEPEEL NQTEQTAYEV EGIGYDFIPT VLDRAVVDKW FKSNDSDFA 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
Source	E.coli
Target Names	Cbs
Protein Names	Recommended name: Cystathionine beta-synthase EC= 4.2.1.22 Alternative name(s): Beta-thionase Serine sulfhydrase
Expression Region	2-561
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	Full Length of Mature Protein
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

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.