

Recombinant Mouse CBS Protein (2-561 aa), His-tagged

Cat. No. CBS-1960M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse CBS Protein (2-561 aa) is produced by Yeast expression system. This protein is fused with a 6xHis tag at the N-terminal. Research Area: Cancer. Protein Description: Full Length of Mature Protein.
Species	Mouse
Source	Yeast
ProteinLength	2-561 aa
Description	Hydro-lyase catalyzing the first step of the transsulfuration pathway, where the hydroxyl group of L-serine is displaced by L-homocysteine in a beta-replacement reaction to form L-cystathionine, the precursor of L-cysteine. This catabolic route allows the elimination of L-methionine and the toxic metabolite L-homocysteine (By similarity). Also involved in the production of hydrogen sulfide, a gasotransmitter with signaling and cytoprotective effects on neurons.
Form	Tris-based buffer, 50% glycerol
Molecular Mass	63.4 kDa
AA Sequence	PSGTSQCEDGSAGGFQHLDMHSEKRQLEKGPSGDKDRVWIRPDTPSRCTWQLGR AMADSPHYHTVLTKSPKILPDILRKIGNTPMVRINKISKNAGLKCELLAKCEFFNAGGS VKDRISLRMIEDAERAGNLKPGDTIIPTSGNTGIGLALAAAVKGYRCIIVMPEKMSME KVDVLRALGAEIVRTPTNARFDSPEHVGVAVRLKNEIPNSHILDQYRNASNPLAHY

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DDTAEELQQCDGKLDMLVASAGTGGTITGIARKLKEKCPGCKIIGVDPEGSILAEPEE
 LNQTEQTAYEVEGIGYDFIPTVLDRVVDKWFKSNDSDSFAFARMLIAQEGLLCGGS
 SGSAMAVAVKAARELQEGQRCVVILPDSVRNYMSKFLSDKWMLQKGFMEELSVK
 RPWWWRLRVQELSLSAPLTVLPTVTCTEDTIALREKGFQAPVVNESGAILGMVTLG
 NMLSSLLAGKVRPSDEVCKVLYKQFKPIHLTDTLGTLSHILEMDHFALVVHEQIQSRD
 QAWSGVVGGPTDCSNGMSSKQQMVFGVVTAIDLLNFVAAREQTQT

Purity > 90% as determined by SDS-PAGE.

Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

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 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

Concentration A hardcopy of COA with reconstitution instruction is sent along with the products.

GENE INFORMATION

Gene Name [Cbs cystathionine beta-synthase \[Mus musculus \]](#)

Official Symbol [CBS](#)

Synonyms CBS; beta-thionase; HIP4; AI047524; AI303044; MGC18856; MGC18895; MGC37300;

Gene ID [12411](#)

mRNA Refseq [NM_144855](#)

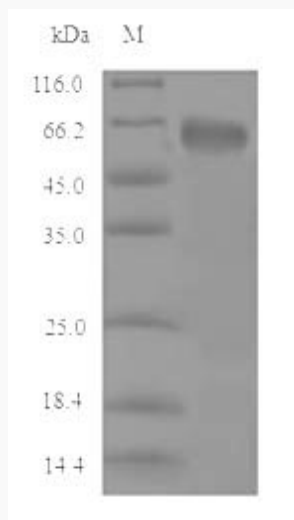
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Protein Refseq NP_659104

UniProt ID Q91WT9



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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