

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

Cat. No. CBS-1918M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse CBS Protein (2-561 aa) is produced by E. coli expression system. This protein is fused with a 6xHis tag at the N-terminal. Protein Description: Full Length of Mature Protein.
Species	Mouse
Source	E.coli
ProteinLength	2-561 aa
Description	Only known pyridoxal phosphate-dependent enzyme that contains heme. 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.
Form	Tris-based buffer,50% glycerol
Molecular Mass	65.4 kDa
AA Sequence	PSGTSQCEDGSAGGFQHLDMHSEKRQLEKGPSGDKDRVWIRPDTPSRCTWQLGR AMADSPHYHTVLTKSPKILPDILRKIGNTPMVRINKISKNAGLKCELLAKCEFFNAGGS VKDRISLRMIEDAERAGNLKPGDTIIEPTSGNTGIGLALAAAVKGYRCIIVMPEKMSME KVDVLRALGAEIVRTPTNARFDSPEHVGVAVWRLKNEIPNSHILDQYRNASNPLAHY DDTAAEILQQCDGKLDMLVASAGTGGTITGIARKLKEKCPGCKIIGVDPEGSILAEPEE

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LNQTEQTAYEVEGIGYDFIPTVLDRVVVKWFKSNDEDSFAFARMLIAQEGLLCGGS
 SGSAMAVAVKAARELQEGQRCVVILPDSVRNYMSKFLSDKWMLQKGFMEELSVK
 RPWWWRLRVQELSLSAPLTVLPTVTCEDTIALREKGFQAPVVNESGAILGMVTLG
 NMLSSLLAGKVRPSDEVCKVLYKQFKPIHLDTLGLTSHILEMDHFALVVHEQIQSRD
 QAWSGVVGPTDCSNGMSSKQMVFGVVTAIDLLNFVAAREQTQT

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](#)

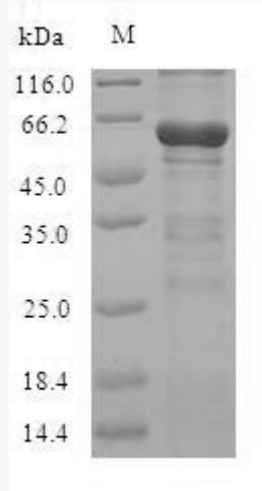
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Protein Refseq NP_659104

UniProt ID Q91WT9



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

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