Data Sheet (Cat.No.TMPH-02615)

TargetMol

CBS Protein, Mouse, Recombinant (His)

General Information

Synonyms: Beta-thionase;Cystathionine beta-synthase;Serine sulfhydrase;Cbs

Protein Construction: 2-561 aa

Species: Mouse

Expression Host: E. coli

Accession: Q91WT9

Molecular Weight: 65.4 kDa (predicted)

AA Sequence: PSGTSQCEDGSAGGFQHLDMHSEKRQLEKGPSGDKDRVWIRPDTPSRCTWQLGRAMADSPHYHTVLTKSP KILPDILRKIGNTPMVRINKISKNAGLKCELLAKCEFFNAGGSVKDRISLRMIEDAERAGNLKPGDTIIEPTSGNT GIGLALAAAVKGYRCIIVMPEKMSMEKVDVLRALGAEIVRTPTNARFDSPESHVGVAWRLKNEIPNSHILDQY RNASNPLAHYDDTAEEILQQCDGKLDMLVASAGTGGTITGIARKLKEKCPGCKIIGVDPEGSILAEPEELNQTE QTAYEVEGIGYDFIPTVLDRAVVDKWFKSNDEDSFAFARMLIAQEGLLCGGSSGSAMAVAVKAARELQEGQR CVVILPDSVRNYMSKFLSDKWMLQKGFMKEELSVKRPWWWRLRVQELSLSAPLTVLPTVTCEDTIAILREKGF DQAPVVNESGAILGMVTLGNMLSSLLAGKVRPSDEVCKVLYKQFKPIHLTDTLGTLSHILEMDHFALVVHEQI QSRDQAWSGVVGGPTDCSNGMSSKQQMVFGVVTAIDLLNFVAAREQTQT

QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: > 90% as determined by SDS-PAGE.

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

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. Also involved in the production of hydrogen sulfide, a gasotransmitter with signaling and cytoprotective effects on neurons.

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