

# Recombinant Human Cystathionine beta-synthase(CBS),partial

Catalog No: #AP76506

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Package Size: #AP76506-1 20ug #AP76506-2 100ug #AP76506-3 1mg

## Description

|                       |  |
|-----------------------|--|
| Product Name          | Recombinant Human Cystathionine beta-synthase(CBS),partial   |
| Brief Description     | Recombinant Protein  |
| Host Species          | E.coli   |
| Purification          | Greater than 90% as determined by SDS-PAGE.  |
| Immunogen Description | Expression Region:1-413aaSequence Info:Partial   |
| Other Names           | Beta-thionase;Serine sulfhydrase   |
| Accession No.         | P35520   |
| Uniprot               | P35520   |
| GeneID                | 102724560;875;   |
| Calculated MW         | 61.4 kDa   |
| Tag Info              | N-terminal 6xHis-SUMO-tagged   |
| Target Sequence       | MPSETPQAEVGTGCPHRSGPHSAKGSLEKGSPEDEKAKEPLWIRPDAPSRCTWQLGRPASESPHHHTAPAKSPKILPDILKKIGDTPMVRINKIGKKFGLKCELLAKCEFFNAGGSVKDRISLRMIEDAERDGLKPGDTIIPTSGNTGIGLALAAAVRGYRCIIVMPEKMSSEKVDVLRALGAEIVRTPTNARFDSPESHVGVAVRWLKNEIPNSHILDQYRNASNPLAHYDTTADEILQQCDGKLDMLVASVGTGGTITGIARKLKEKCPGCRIGVDPEGSILAEPEELNQTEQTTYEVEGIGYDFIPTVLDRTVVDKWFKSNDEEAFTFARMLIAQEGLLCGGSAGSTVAVAVKAAQELQEGQRCVVILPDSVRNYMTKFLSDRWMLQKGFLEEDLTEKKPWWHLR |
| Formulation           | Tris-based buffer50% glycerol  |
| Storage               | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.<br><br>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.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.                          |

## Background

Only known pyridoxal phosphate-dependent enzyme that contains he. 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 .

## References

Human cystathionine beta-synthase cDNA sequence, alternative splicing and expression in cultured cells.Kraus J.P., Le K., Swaroop M., Ohura T., Tahara T., Rosenberg L.E., Roper M.D., Kozich V.Hum. Mol. Genet. 2:1633-1638(1993)Research Topic:Metabolism

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Note: This product is for in vitro research use only