

## Recombinant Human CBS, His-tagged

Cat. No. CBS-10765H Lot. No. (See product label)

### SPECIFICATION

|                         |  |
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| <b>Product Overview</b> | Recombinant Human CBS protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.   |
| <b>Species</b>          | Human  |
| <b>Source</b>           | E.coli   |
| <b>ProteinLength</b>    | 206-551 a.a.   |
| <b>Description</b>      | <p>The calpains, calcium-activated neutral proteases, are nonlysosomal, intracellular cysteine proteases. The mammalian calpains include ubiquitous, stomach-specific, and muscle-specific proteins. The ubiquitous enzymes consist of heterodimers with distinct large, catalytic subunits associated with a common small, regulatory subunit. This gene encodes the large subunit of the ubiquitous enzyme, calpain 2. Multiple heterogeneous transcriptional start sites in the 5' UTR have been reported. Two transcript variants encoding different isoforms have been found for this gene.</p> |
| <b>Storage</b>          | The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.  |
| <b>Storage Buffer</b>   | 1M PBS (58mM Na <sub>2</sub> HPO <sub>4</sub> , 17mM NaH <sub>2</sub> PO <sub>4</sub> , 68mM NaCl, pH8. ) added with 300mM Imidazole and 0.7% Sarcosyl, 15% glycerol.  |

### GENE INFORMATION

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|----------------------------|--|
| <b>Gene Name</b>           | CBS cystathionine-beta-synthase [ Homo sapiens ]   |
| <b>Official Symbol</b>     | CBS  |
| <b>Synonyms</b>            | CBS; cystathionine-beta-synthase; cystathionine beta-synthase; HIP4; beta-thionase; serine sulfhydrase; methylcysteine synthase;   |
| <b>Gene ID</b>             | 875  |
| <b>mRNA Refseq</b>         | NM_000071  |
| <b>Protein Refseq</b>      | NP_000062  |
| <b>MIM</b>                 | 613381   |
| <b>UniProt ID</b>          | P35520   |
| <b>Chromosome Location</b> | 21q22.3  |
| <b>Pathway</b>             | Cysteine and methionine metabolism, organism-specific biosystem; Cysteine and methionine metabolism, conserved biosystem; Cysteine biosynthesis, homocysteine + serine => cysteine, organism-specific biosystem; Cysteine biosynthesis, homocysteine + serine => cysteine, conserved biosystem; Cysteine formation from homocysteine, organism-specific biosystem; |
| <b>Function</b>            | cystathionine beta-synthase activity; cystathionine beta-synthase activity; enzyme binding; heme binding; heme binding; lyase activity; metal ion binding; modified amino acid binding; protein binding; protein homodimerization activity; pyridoxal phosphate  |

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