

## Recombinant Human CTSB, His-tagged

Cat. No. CTSB-26410TH Lot. No. (See product label)

### SPECIFICATION

|                         |  |
|-------------------------|--|
| <b>Product Overview</b> | Recombinant fragment, corresponding to amino acids 125-339 of Human Cathepsin B with N terminal His tag; Predicted MWt 25 kDa.   |
| <b>Species</b>          | Human  |
| <b>Source</b>           | E.coli   |
| <b>ProteinLength</b>    | 125-339 a.a.   |
| <b>Description</b>      | <p>The protein encoded by this gene is a lysosomal cysteine proteinase composed of a dimer of disulfide-linked heavy and light chains, both produced from a single protein precursor. It is also known as amyloid precursor protein secretase and is involved in the proteolytic processing of amyloid precursor protein (APP). Incomplete proteolytic processing of APP has been suggested to be a causative factor in Alzheimer disease, the most common cause of dementia. Overexpression of the encoded protein, which is a member of the peptidase C1 family, has been associated with esophageal adenocarcinoma and other tumors. At least five transcript variants encoding the same protein have been found for this gene.</p> |
| <b>Conjugation</b>      | HIS  |
| <b>Form</b>             | Lyophilised:Reconstitute with 60 µl aqua dest.   |
| <b>Storage buffer</b>   | Preservative: None<br>Constituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5  |

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|                                 |  |
|---------------------------------|--|
| <b>Storage</b>                  | Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.  |
| <b>Sequences of amino acids</b> | TNAHVSVEVSAEDLLTCCGSMCGDGCNGGYPAEAWNFWTR KGLVSGGLYESHVG<br>CRPYSIPPCEHHVNGSRPPCTGEG DTPKCSKICEPGYSPTYKQDKHYGNSYSVS<br>NSEKDIM AEIYKNGPVEGAFSVYSDFLLYKSGVYQHVTGEMMGGH AIRILGWGVE<br>NGTPYWLVANSWNTDWGDNGFFKILRGQDHCGIESEVVAGIPRTDQYWEKI |
| <b>Sequence Similarities</b>    | Belongs to the peptidase C1 family.  |

## GENE INFORMATION

|                            |   |
|----------------------------|---|
| <b>Gene Name</b>           | <a href="#">CTSB cathepsin B [ Homo sapiens ]</a>                         |
| <b>Official Symbol</b>     | <a href="#">CTSB</a>  |
| <b>Synonyms</b>            | CTSB; cathepsin B;  |
| <b>Gene ID</b>             | <a href="#">1508</a>  |
| <b>mRNA Refseq</b>         | <a href="#">NM_001908</a>   |
| <b>Protein Refseq</b>      | <a href="#">NP_001899</a>   |
| <b>MIM</b>                 | <a href="#">116810</a>  |
| <b>Uniprot ID</b>          | <a href="#">P07858</a>  |
| <b>Chromosome Location</b> | 8p23.1  |
| <b>Pathway</b>             | Antigen processing and presentation, organism-specific biosystem; Antigen |

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processing and presentation, conserved biosystem; Lysosome, organism-specific biosystem; Lysosome, conserved biosystem;

**Function**

cysteine-type endopeptidase activity; kininogen binding; peptidase activity; peptide binding; protein binding;

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