

## Native Human Cathepsin B

**Cat. No.** CTSB-1647H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                |
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| <b>Product Overview</b> | Native Human Cathepsin B was purified from Human Liver.                                                                                                                                                                                                        |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                          |
| <b>Source</b>           | Human Liver                                                                                                                                                                                                                                                    |
| <b>Description</b>      | Cathepsin B , a cysteine proteinase, is located in lysosomes and is involved in tissue degradation and restructuring. Specifically, cathepsin B is believed to be involved in the intracellular digestion of extracellular proteins taken up by endocytosis.   |
| <b>Form</b>             | Frozen in 50 mM Na Acetate, pH 5.0, with 1 mM EDTA.                                                                                                                                                                                                            |
| <b>Bio-activity</b>     | Greater than 200 units per mg protein. One unit is defined as the amount of enzyme that hydrolyzes one umole of Z-Arg-Arg-beta-naphthylamide per minute at 40oC, using 100 mM Na/K phosphate, pH 6.0, with 1.33 mM EDTA and 2 mM DTT as the activation buffer. |
| <b>Molecular Mass</b>   | 27500                                                                                                                                                                                                                                                          |
| <b>Purity</b>           | ≥95% by SDS-PAGE                                                                                                                                                                                                                                               |
| <b>Storage</b>          | -70°C or lower                                                                                                                                                                                                                                                 |

### GENE INFORMATION

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|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | CTSB cathepsin B [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                     |
| <b>Official Symbol</b>     | CTSB                                                                                                                                                                                                                                                                                                                                                  |
| <b>Synonyms</b>            | CTSB; cathepsin B; cathepsin B1; APP secretase; cysteine protease; amyloid precursor protein secretase; APPS; CPSB;                                                                                                                                                                                                                                   |
| <b>Gene ID</b>             | 1508                                                                                                                                                                                                                                                                                                                                                  |
| <b>mRNA Refseq</b>         | NM_001908                                                                                                                                                                                                                                                                                                                                             |
| <b>Protein Refseq</b>      | NP_001899                                                                                                                                                                                                                                                                                                                                             |
| <b>MIM</b>                 | 116810                                                                                                                                                                                                                                                                                                                                                |
| <b>UniProt ID</b>          | P07858                                                                                                                                                                                                                                                                                                                                                |
| <b>Chromosome Location</b> | 8p23.1                                                                                                                                                                                                                                                                                                                                                |
| <b>Pathway</b>             | Antigen processing and presentation, organism-specific biosystem; Antigen processing and presentation, conserved biosystem; Immune System, organism-specific biosystem; Innate Immune System, organism-specific biosystem; Lysosome, organism-specific biosystem; Lysosome, conserved biosystem; Toll Receptor Cascades, organism-specific biosystem; |
| <b>Function</b>            | cysteine-type endopeptidase activity; cysteine-type peptidase activity; kininogen binding; peptidase activity; peptide binding; protein binding;                                                                                                                                                                                                      |