

# Recombinant Mouse Ctsb Protein, His-tagged

**Cat. No.** Ctsb-7184M    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Mouse Ctsb Protein with a His tag.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>ProteinLength</b>    | 18-339                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>      | <p>This gene encodes a member of the peptidase C1 family and preproprotein that is proteolytically processed to generate multiple protein products. These products include the cathepsin B light and heavy chains, which can dimerize to generate the double chain form of the enzyme. This enzyme is a lysosomal cysteine protease with both endopeptidase and exopeptidase activity that may play a role in protein turnover. Homozygous knockout mice for this gene exhibit reduced pancreatic damage following induced pancreatitis and reduced hepatocyte apoptosis in a model of liver injury. Pseudogenes of this gene have been identified in the genome.</p> |
| <b>Form</b>             | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Molecular Mass</b>   | 36.4 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>AA Sequence</b>      | <p>HDKPSFHPLSDDLINYINKQNTTWQAGRNFYNVDISYLKKLCGTVLGGPKLPGRVAF<br/>         GEDIDLPETFDAREQWSNCPTIGQIRDQGS CGSCWAFGAVEAISDRTCIHTNGRVN<br/>         VEVSAEDLLTCCGIQCGDGCNGGYPSGAWSFWTKKGLVSGGVYN SHVGCLPYTIP<br/>         PCEHHVNGSRPPCTGEGDTPRCNKSCEAGYSPSYKEDKHFGYTSYSVSNSVK EIM<br/>         AEIYKNGPVGAFTVFSDFLTYKSGVYKHEAGDMMGGHAIRILGWGVENGVPYWLA<br/>         ANSWNLDWGDNGFFKILRGENHCGIESEIVAGIPRTDQYWGRFLEHHHHHHH</p>                                                                                                                                                                                                                                            |

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|                       |                                                                                                                                           |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Endotoxin</b>      | < 1.0 EU/μg of protein (determined by LAL method)                                                                                         |
| <b>Purity</b>         | > 90 % by SDS-PAGE                                                                                                                        |
| <b>Stability</b>      | Shelf life: one year from despatch.                                                                                                       |
| <b>Storage</b>        | Store undiluted at 2-8 centigrade for one week or (in aliquots) at -20 to -80 centigrade for longer. Avoid repeated freezing and thawing. |
| <b>Concentration</b>  | 0.5 mg/mL (determined by absorbance at 280nm)                                                                                             |
| <b>Storage Buffer</b> | Phosphate Buffered Saline (pH 7.4) containing 10 % glycerol.                                                                              |

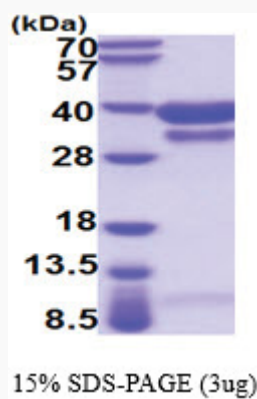
## GENE INFORMATION

|                        |                                                               |
|------------------------|---------------------------------------------------------------|
| <b>Gene Name</b>       | Ctsb cathepsin B [ Mus musculus (house mouse) ]               |
| <b>Official Symbol</b> | Ctsb                                                          |
| <b>Synonyms</b>        | Ctsb; cathepsin B; CB; cathepsin B; cathepsin B1; EC 3.4.22.1 |
| <b>Gene ID</b>         | 13030                                                         |
| <b>mRNA Refseq</b>     | NM_007798                                                     |
| <b>Protein Refseq</b>  | NP_031824                                                     |
| <b>UniProt ID</b>      | P10605                                                        |

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**SDS-PAGE**

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