

## Recombinant Mouse Ctsb Protein, Myc/DDK-tagged

Cat. No. Ctsb-2367M Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Purified recombinant protein of mouse full-length cathepsin B (Ctsb), with C-terminal MYC/DDK tag, expressed in HEK293T cells.

**Species** Mouse

**Source** HEK293

**ProteinLength** 1-339 aa

**Description** 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.

**Molecular Mass** 37.7 kDa

**Purity** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Stability** Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

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<b>Storage</b>	Store at -80 centigrade after receiving vials.
<b>Concentration</b>	>50 µg/mL as determined by microplate BCA method
<b>Storage Buffer</b>	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 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; cathepsin B1; CB
<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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