

## Native Human Cathepsin B

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

### SPECIFICATION

<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;

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