

Native Human Cathepsin B

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

SPECIFICATION

Product Overview	Native Human Cathepsin B was purified from Human Liver.
Species	Human
Source	Human Liver
Description	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.
Form	Frozen in 50 mM Na Acetate, pH 5.0, with 1 mM EDTA.
Bio-activity	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.
Molecular Mass	27500
Purity	≥95% by SDS-PAGE
Storage	-70°C or lower

GENE INFORMATION

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Gene Name	CTSB cathepsin B [Homo sapiens]
Official Symbol	CTSB
Synonyms	CTSB; cathepsin B; cathepsin B1; APP secretase; cysteine protease; amyloid precursor protein secretase; APPS; CPSB;
Gene ID	1508
mRNA Refseq	NM_001908
Protein Refseq	NP_001899
MIM	116810
UniProt ID	P07858
Chromosome Location	8p23.1
Pathway	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;
Function	cysteine-type endopeptidase activity; cysteine-type peptidase activity; kininogen binding; peptidase activity; peptide binding; protein binding;