

Native Human CTSB

Cat. No. CTSB-26408TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Full length native Human Cathepsin B purified from liver; MWt 27.5 kDa.
Species	Human
Description	The protein encoded by this gene is a lysosomal cysteine proteinase composed of a dimer of disulfide-linked heavy and light chains, both produced from a single protein precursor. It is also known as amyloid precursor protein secretase and is involved in the proteolytic processing of amyloid precursor protein (APP). Incomplete proteolytic processing of APP has been suggested to be a causative factor in Alzheimer disease, the most common cause of dementia. Overexpression of the encoded protein, which is a member of the peptidase C1 family, has been associated with esophageal adenocarcinoma and other tumors. At least five transcript variants encoding the same protein have been found for this gene.
Biological activity	Activity: Greater than 200 units per mg protein. One unit is defined as the amount of enzyme that hydrolyzes one pmole of Z-Arg-Arg-beta-naphthylamide per minute at 40°C, using 100 mM Na/K phosphate, pH 6.0, with 1.33 mM EDTA and 2 mM DTT as the
Form	Liquid
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 50mM Sodium acetate, 1mM EDTA, pH 5.0

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Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequence Similarities	Belongs to the peptidase C1 family.
Full Length	Full L.
GENE INFORMATION	
Gene Name	CTSB cathepsin B [Homo sapiens]
Official Symbol	CTSB
Synonyms	CTSB; cathepsin B;
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; Lysosome, organism-specific biosystem; Lysosome, conserved biosystem;

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Function

cysteine-type endopeptidase activity; kininogen binding; peptidase activity; peptide binding; protein binding;

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