

Recombinant Human CTSB, His-tagged

Cat. No. CTSB-26410TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 125-339 of Human Cathepsin B with N terminal His tag; Predicted MWt 25 kDa.
Species	Human
Source	E.coli
ProteinLength	125-339 a.a.
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.
Conjugation	HIS
Form	Lyophilised:Reconstitute with 60 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5

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Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	TNAHVSVEVSAEDLLTCCGSMCGDGCNGGYPAEAWNFWTR KGLVSGGLYESHVG CRPYSIPPCEHHVNGSRPPCTGEG DTPKCSKICEPGYSPTYKQDKHYGYNSYSVS NSEKDIM AEIYKNGPVEGAFSVYSDFLLYKSGVYQHVTGEMMGGH AIRILGWGVE NGTPYWLVANSWNTDWGDNGFFKILRGQDHCGIESEVVAGIPRTDQYWEKI
Sequence Similarities	Belongs to the peptidase C1 family.
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

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processing and presentation, conserved biosystem; Lysosome, organism-specific biosystem; Lysosome, conserved biosystem;

Function

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

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