

Recombinant Human Cathepsin K

Cat. No. CTSK-1659H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CTSK is a 35.1 kDa homodimeric protein consisting of 99 amino acid polypeptide domain.
Species	Human
Source	E.coli
Description	CTSK is a member of the papain cysteine proteinase family and has been identified as the predominant proteinase responsible for the resorption of the bone matrix. The enzyme cleaves proteins such as collagen type I, collagen type II and osteonectin and therefore plays a role in bone remodeling and resorption in diseases such as osteoporosis, osteolytic bone metastasis and rheumatoid arthritis.
Molecular Weight	35.1 kDa
Form	Liquid (25 mM Tris pH 8.0, 500 mM NaCl).
Appearance	Liquid
Purity	≥95% by SDS-PAGE
Storage	Procathepsin K can be aliquoted and stored at -80°C. Repeated freeze-thaw cycles must be avoided.

GENE INFORMATION

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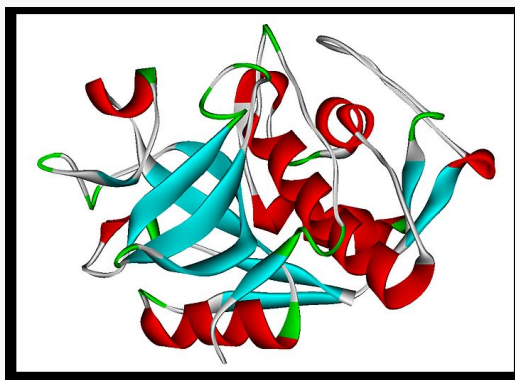
Gene Name	CTSK cathepsin K [Homo sapiens]
Official Symbol	CTSK
Synonyms	CTSK; cathepsin K; CTSO; PKND; PYCD; CTS02; CTSO1; CTSO2; MGC23107; cathepsin K; cathepsin O; cathepsin X; cathepsin O1; cathepsin O2; OTTHUMP00000032938
Gene ID	1513
mRNA Refseq	NM_000396
Protein Refseq	NP_000387
MIM	601105
UniProt ID	P43235
Chromosome Location	1q21
Pathway	Lysosome; Osteoclast Signaling; Osteoclast differentiation; Rheumatoid arthritis; Toll-like receptor signaling pathway
Function	cysteine-type endopeptidase activity; cysteine-type peptidase activity; peptidase activity

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Ribbon diagram of
cathepsin K, colored
by
secondary structure.
From PDB 1TU6.



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