Recombinant Human CTSK

Cat. No. CTSK-690H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CTSK was expressed in insect cells.
Species	Human
Source	Insect Cells
Description	The protein encoded by this gene is a lysosomal cysteine proteinase involved in bone remodeling and resorption. This protein, which is a member of the peptidase C1 protein family, is predominantly expressed in osteoclasts. However, the encoded protein is also expressed in a significant fraction of human breast cancers, where it could contribute to tumor invasiveness. Mutations in this gene are the cause of pycnodysostosis, an autosomal recessive disease characterized by osteosclerosis and short stature. This gene may be subject to RNA editing.
Molecular Mass	~26kDa
Purity	≥95% as determined by SDSPAGE.
Concentration	0.023mg/ml
Formulation	Liquid. In 50mM sodium acetate, pH 5.5, containing 50mM sodium chloride, 0.5mM EDTA and 5mM DTT.
Specific Activity	≥1''500mU/mg protein.One unit is defined as the amount of enzyme that will hydrolyze 1μmol Z-Phe-Arg-AMC substrate per min. at 37oC in 50mM sodium acetate, pH 5.5,

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	containing 2.5mM EDTA, 0.01% Trition X-100 and 1mM DTT.
Storage	Stable for at least 6 months after receipt when stored at -80°C.
OfficialSymbol	CTSK

GENE INFORMATION

Gene Name	CTSK cathepsin K [Homo sapiens]
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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