Recombinant Human CTSK Protein, His-tagged

Cat. No. CTSK-330H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CTSK(Leu54~Ala317) fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Leu54~Ala317
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.
Form	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Molecular Mass	33.0kDa
Identity	Reconstitute in PBS or others
Endotoxin	<1.0EU per 1μg (determined by the LAL method)

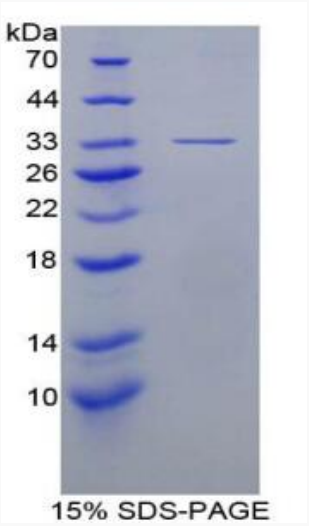
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Purity	> 95%
Applications	Positive Control; Immunogen; SDS-PAGE; WB. If bio-activity of the protein is needed, please check active protein
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Reconstitution	Reconstitute in PBS or others

GENE INFORMATION

Gene Name	CTSK cathepsin K [Homo sapiens]
Official Symbol	CTSK
Synonyms	CTSK; cathepsin K; cathepsin K (pycnodysostosis) , CTSO, CTSO2, PYCD; PKND; cathepsin O; cathepsin X; cathepsin O1; cathepsin O2; CTSO; PYCD; CTS02; CTSO1; CTSO2; MGC23107;
Gene ID	1513
mRNA Refseq	NM_000396
Protein Refseq	NP_000387

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MIM	601105
UniProt ID	P43235
	

15% SDS-PAGE

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