

Recombinant Mouse Ctsk Protein, His/GST-tagged

Cat. No. Ctsk-331M **Lot. No.** (See product label)

SPECIFICATION

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| Product Overview | Recombinant Mouse Ctsk(Gly113~Asn316) fused with His/GST tag at N-terminal was expressed in E. coli. |
| Species | Mouse |
| Source | E.coli |
| ProteinLength | Gly113~Asn316 |
| Description | This gene encodes a member of the cathepsin family of cysteine proteases that is highly expressed in osteoclasts and is involved in the degradation of collagen and other matrix proteins in bone. The encoded preproprotein undergoes proteolytic processing to generate a mature, functional enzyme. Mice lacking the encoded protein exhibit phenotypic features of pycnodysostosis such as increased bone density and bone deformity, which become progressively more pronounced with age. |
| Form | PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300. |
| Molecular Mass | 54.3kDa |
| Identity | Reconstitute in PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex. |
| Endotoxin | <1.0EU per 1g (determined by the LAL method) |
| Purity | > 95% |

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| 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 |

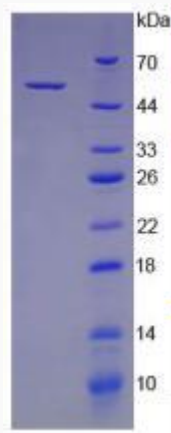
GENE INFORMATION

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|------------------------|--|
| Gene Name | Ctsk cathepsin K [<i>Mus musculus</i>] |
| Official Symbol | Ctsk |
| Synonyms | CTSK; cathepsin K; Cat K; minisatellite 10q detected by probe MMS10; catK; Ms10q; MMS10-Q; AI323530; |
| Gene ID | 13038 |
| mRNA Refseq | NM_007802 |
| Protein Refseq | NP_031828 |
| UniProt ID | P55097 |

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