

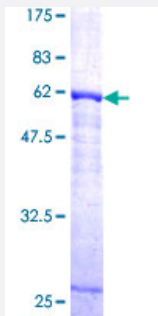
Full-Length

CTSK (Human) Recombinant Protein (P01)

Catalog # H00001513-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human CTSK full-length ORF (AAH16058, 15 a.a. - 329 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

ALYPEEILDTHWELWKKTHRKQYNNKVDEISRRLWEKNLKYISIHNLASLGVHTYELAMNHLGDM
TSEEVVQKMTGLKVPLSHSRSDTLYPEWEGRAPDSVDYRKKGYVTPVKNQGQCGSCWAFSS
VGALEGQLKKKTGKLLNLSPQNLVDCVSENDGCGGGYMTNAFQYVQKNRGIDSEDAYPYVGQE
ESCMYNPTGKAAKCRGYREIPEGNEKALKRAVARVGPVSAIDASLTSFQFYSGVYYDESCNS
DNLNHAVLAVGYGIQKGNKHWIKNWGENWGNKGYLMAKNKNNACGIANLASFPKM

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

60.28

Interspecies Antigen Sequence

Mouse (87); Rat (88)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — CTSK

Entrez GeneID[1513](#)**GeneBank Accession#**[BC016058](#)**Protein Accession#**[AAH16058](#)**Gene Name**

CTSK

Gene Alias

CTS02, CTSO, CTSO1, CTSO2, MGC23107, PKND, PYCD

Gene Description

cathepsin K

Omim ID[265800 601105](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

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. [provided by RefSeq]

Other Designations

OTTHUMP00000032938|cathepsin O1|cathepsin O2|cathepsin X

Pathway

- [Lysosome](#)

Disease

- [Alzheimer disease](#)
- [Body Weight](#)
- [Cardiovascular Diseases](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Metabolic Syndrome X](#)
- [Neoplasms](#)
- [Osteoporosis](#)
- [Ovarian Neoplasms](#)