

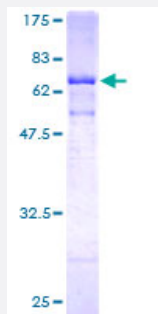
Full-Length

CTSE (Human) Recombinant Protein (P01)

Catalog # H00001510-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human CTSE full-length ORF (AAH42537, 18 a.a. - 396 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

QGSLHRVPLRRHPTLKKKLRRARSQLSEFWKSHNLDMIQFTESCSMDQSAKEPLINYLDMEYFGTI
SIGSPQNFVIFDTGSSNLWVPSVYCTSPACKTHSRFQPSQSSTYSQPGQSFSIQYGTGSLSGIIG
ADQVSVEGLTVVGQQFGESVTEPGQTLVDAEFDGILGLGYPSLAVGGVTPVFDNMMAQNLVDLP
MFSVYMSSNPEGGAGSELIFGGYDHSFSGSLNWVPVTKQAYWQIALDNIQVGGTVMFCSEGCQ
AMDTGTSLITGPSDKIKQLQNAIGAAPVDGEYAVECANLNVMPDVTFTINGVPYTLSPYATLLDFV
DGMQFCSSGFQGLDIHPPAGPLWILGDVFIRQFYSVFDRGNRRVGLAPAVP

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

67.43

Interspecies Antigen Sequence

Mouse (83); Rat (77)

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 — CTSE

Entrez GeneID[1510](#)**GeneBank Accession#**[BC042537](#)**Protein Accession#**[AAH42537](#)**Gene Name**

CTSE

Gene Alias

CATE

Gene Description

cathepsin E

Omim ID[116890](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

The protein encoded by this gene is a gastric aspartyl protease that functions as a disulfide-linked homodimer. This protease, which is a member of the peptidase C1 family, has a specificity similar to that of pepsin A and cathepsin D. It is an intracellular proteinase that does not appear to be involved in the digestion of dietary protein and is found in highest concentration in the surface of epithelial mucus-producing cells of the stomach. It is the first aspartic proteinase expressed in the fetal stomach and is found in more than half of gastric cancers. It appears, therefore, to be an oncofetal antigen. Transcript variants utilizing alternative polyadenylation signals and two transcript variants encoding different isoforms exist for this gene. [provided by RefSeq]

Other Designations

OTTHUMP00000034345|OTTHUMP00000034346|erythrocyte membrane aspartic proteinase|slow-moving proteinase

Pathway

- [Lysosome](#)