

AR51406PU-S**Human Cathepsin E (57-363, His-tag) - Purified****Alternate names:**

CTSE

Quantity:

0.1 mg

Concentration:

1.0 mg/ml (determined by Bradford assay)

Background:

CTSE is a gastric aspartyl protease that functions as a disulfide-linked homodimer. CTSE, 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.

Uniprot ID:[P14091](#)**NCBI:**[NP_683865](#)**GenelD:**[1510](#)**Species:**

Human

Source:

E. coli

Format:**State:** Liquid purified protein**Purity:** >85% by SDS - PAGE**Buffer System:** 20 mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol**Description:**

Recombinant human CTSE protein, fused to His-tag at N-terminus, was expressed in E.coli.

AA Sequence:

```
MGSSHHHHH SSGLVPRGSH MGSTESCSMD QSAKEPLINY LDMEYFGTIS IGSPQNFV  
IFDGTSSNLW VPSVYCTSPA CKTHSRFQPS QSSTYSQPGQ SFSIQYGTGS LSGIIGADQV  
SVEGLTVVGQ QFGESVTEPG QTFVDAEFDG ILGLGYPSLA VGGVTPVFDN MMAQNLDLP  
MFSVYMSSNP EGGAGSELIF GGYDHSFSG SLNWPVPTKQ AYWQIALDNM LWSVPTLTSC  
RMSPSPLTES PIPSAQLPTP YWTSWMECSS AAVAFKDLTS TLQLGPSGSW GMSSFDSFTQ  
SLTVGITVWD WPQQSPKEGP CVCACLSDRP
```

Molecular weight: 35.4 kDa (330aa)**Storage:**

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

General Readings:

Sealy L., et al. (1996) Eur. J. Immunol. 26:1838-1843

Cook M., et al. (2001) Eur. J. Biochem. 268:2658-2668

Pictures:

