

CTSE, 57-363aa Human, His tag, E.coli

Cat.NO.: TP01777

3th Edition

Synonyms:Cathepsin E, CATE

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

Form:Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol

Molecular Weight:35.4 kDa (330aa)

Sequences:

MGSSHHHHHHSSGLVPRGSHMGSTESCSMDQSAKEPLINYLDMEYFGTISIGSPPQNFTVIFDTGSSNLWVPSVY
CTSPACKTHSRFQPSQSSTYSQPGQSFSIQYGTGSLSGIIGADQVSVEGLTVVGQQFGESVTEPGQTFVDAEFDGI
LGLGYPSLAVGGVTPVFDNMMAQNLVDLPMFSVYMSSNPEGGAGSELIFGGYDHSFSGSLNWWVPVTKQAYWQI
ALDNMLWSVPTLTSCRMSPLTESPIPSAQLPTPYWTSWMECSSAAVAFKDLTSTLQLGPSGSWGMSSFDSFTQ
SLTVGITVWDWPQQSPKEGPCVCACLSDRP

Purity:> 95% by HPLC

Concentration:1 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.