Recombinant Human Cathepsin E (CTSE)

Product Code	CSB-MP006188HU
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P14091
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	IQFTESC SMDQSAKEPL INYLDMEYFG TISIGSPPQN FTVIFDTGSS NLWVPSVYCT SPACKTHSRF QPSQSSTYSQ PGQSFSIQYG TGSLSGIIGA DQVSAFATQV EGLTVVGQQF GESVTEPGQT FVDAEFDGIL GLGYPSLAVG GVTPVFDNMM AQNLVDLPMF SVYMSSNPEG GAGSELIFGG YDHSHFSGSL NWVPVTKQAY WQIALDNIQV GGTVMFCSEG CQAIVDTGTS LITGPSDKIK QLQNAIGAAP VDGEYAVECA NLNVMPDVTF TINGVPYTLS PTAYTLLDFV DGMQFCSSGF QGLDIHPPAG PLWILGDVFI RQFYSVFDRG NNRVGLAPAV P
Source	Mammalian cell
Target Names	CTSE
Protein Names	Recommended name: Cathepsin E EC= 3.4.23.34 Cleaved into the following 2 chains: 1. Cathepsin E form I 2. Cathepsin E form II
Expression Region	54-401
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full Length of Mature Protein
Target Details	This protein 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.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
Shelf Life	The shelf life is related to many factors, storage state, buffer ingredients,

storage temperature and the stability of the protein itself.
Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.