

Human Cathepsin E ELISA Kit | CTSE elisa kit

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CATALOG # AAA261718	REACTIVITY Human	APPLICATIONS ELISA
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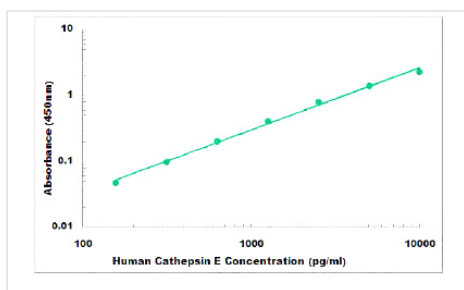
PRODUCT SYNONYMS

Cathepsin E; Human Cathepsin E ELISA Kit; CTSE elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	The Human Cathepsin E ELISA Kit allows for the detection and quantification of endogenous levels of natural and/or recombinant Human Cathepsin E proteins within the range of 156 pg/ml - 10000 pg/ml.
Sequence Length	401
Samples	Cell Culture Supernatants, Serum, Plasma.
Sensitivity	10 pg/ml.
Applicable Applications for CTSE elisa kit	ELISA (Sandwich ELISA)
Preparation and Storage	Shipped and store at 4 degree C for 6 months, store at -20 degree C for one year. Avoid freeze/thaw cycles.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CTSE elisa kit	Principle of the Assay The Human Cathepsin E ELISA (Enzyme-Linked Immunosorbent Assay) kit is an in vitro enzyme-linked immunosorbent assay for the quantitative measurement of Human Cathepsin E in Cell Culture Supernatants, Serum, Plasma. This assay employs an antibody specific for Human Cathepsin E coated on a 96-well plate. Standards and samples are pipetted into the wells and Cathepsin E present in a sample is bound to the wells by the immobilized antibody. The wells are washed and biotinylated anti-Human Cathepsin E antibody is added. After washing away unbound biotinylated antibody, HRP-conjugated streptavidin is pipetted to the wells. The wells are again washed, a TMB substrate solution is added to the wells and color develops in proportion to the amount of Cathepsin E bound. The Stop Solution changes the color from blue to yellow, and the intensity of the color is measured at 450 nm. Background/Introduction: Cathepsin E is a protein that in humans is encoded by the CTSE gene. It is mapped to 1q32.1. 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. Cathepsin E 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, and it also has an important role in immune responses.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	46397366
NCBI GeneID	1510
UniProt Accession #	P14091; Q5TZ01; Q5TZ02; Q9NY58; Q9UCE3; Q9UCE4
Molecular Weight	39,553 Da
NCBI Official Full Name	Cathepsin E
NCBI Official Synonym Full Names	cathepsin E
NCBI Official Symbol	CTSE
NCBI Official Synonym Symbols	CATE
NCBI Protein Information	cathepsin E
UniProt Protein Name	Cathepsin E
UniProt Gene Name	CTSE
UniProt Entry Name	CATE_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.