

Human Cathepsin E ELISA Kit | CTSE elisa kit

Human Cathepsin E PicoKine ELISA Kit

CATALOG #
AAA45777

REACTIVITY
Human

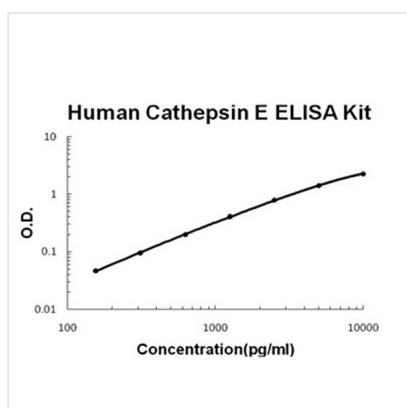
PRODUCT SYNONYMS

Cathepsin E; Human Cathepsin E PicoKine ELISA Kit; cathepsin E; Cj1471c; General secretory pathway protein E; CTSE elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant human Cathepsin E
Sequence Length	401
Samples	Cell culture supernates, serum and plasma (heparin, EDTA)
Assay Type	Sandwich
Detection Range	156pg/ml-10,000pg/ml
Sensitivity	< 10pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay) Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision between assays) Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice.)

IMAGES



Standard Curve (Sample)

Human Cathepsin E PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for CTSE elisa kit

Principle of the assay: human Cathepsin E ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for Cathepsin E has been precoated onto 96-well plates. Standards(NSO, Q18-P396) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for Cathepsin E is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the human Cathepsin E amount of sample captured in plate.

Background: 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.

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; slow-moving proteinase; erythrocyte membrane aspartic proteinase
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.

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Online datasheet: <https://stage.aaabiotech.com/ctse-human-elisa-kits/cathepsin-e/45777>