

Human Cathepsin D ELISA Kit | CTSD elisa kit

Human Cathepsin D PicoKine ELISA Kit

CATALOG #
AAA45291

REACTIVITY
Human

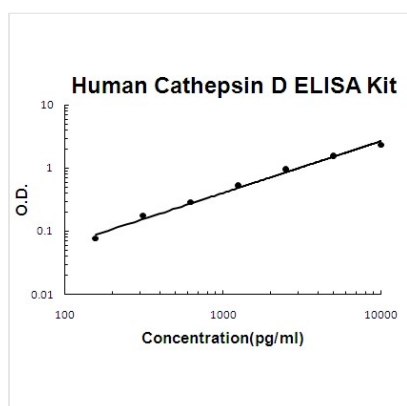
PRODUCT SYNONYMS

Cathepsin D; Human Cathepsin D PicoKine ELISA Kit; cathepsin D; CATD_HUMAN; Cathepsin D heavy chain; Ceroid lipofuscinosis neuronal 10; CLN10; CPD; ctsd; Lysosomal aspartyl protease; CTSD elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant human Cathepsin D
Sequence Length	412
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 D PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for CTSD elisa kit

Principle of the assay: human Cathepsin D ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for Cathepsin D has been precoated onto 96-well plates. Standards(NSO, L21-L412) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for Cathepsin D 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 D amount of sample captured in plate.

Background: Cathepsin D is a protein that in humans is encoded by the CTSD gene. This proteinase is a member of the peptidase C1 family, having a specificity similar to but narrower than that of pepsin A. It is mapped to 11p15.5. The cDNA encodes a 412-amino acid protein with 20 and 44 amino acids in a pre- and prosegment, respectively. Cathepsin D is one of the lysosomal proteinases. It is ubiquitously expressed and is involved in proteolytic degradation, cell invasion, and apoptosis. Mutations in this gene are involved in the pathogenesis of several diseases, including breast cancer and possibly Alzheimer disease and it has been considered as a breast cancer tumor marker.

NCBI AND UNIPROT INFORMATION

NCBI GI #	115717
NCBI GeneID	1509
UniProt Accession #	P07339; Q6IB57
Molecular Weight	44,552 Da
NCBI Official Full Name	Cathepsin D
NCBI Official Synonym Full Names	cathepsin D
NCBI Official Symbol	CTSD
NCBI Official Synonym Symbols	CPSD; CLN10; HEL-S-130P
NCBI Protein Information	cathepsin D; lysosomal aspartyl protease; lysosomal aspartyl peptidase; ceroid-lipofuscinosis, neuronal 10; epididymis secretory sperm binding protein Li 130P
UniProt Protein Name	Cathepsin D
UniProt Gene Name	CTSD
UniProt Synonym Gene Names	CPSD
UniProt Entry Name	CATD_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/ctsd-human-elisa-kits/cathepsin-d/45291>