

Human cathepsin D ELISA Kit | Cath-D elisa kit

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CATALOG #
AAA84957

REACTIVITY
Human

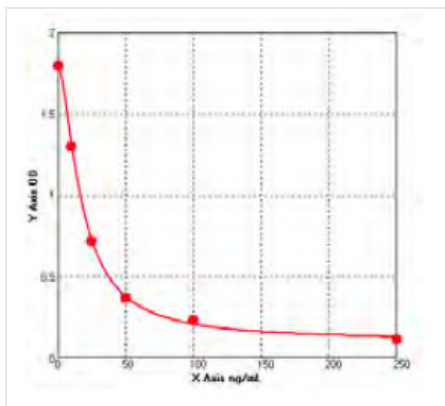
PRODUCT SYNONYMS

cathepsin D; Human cathepsin D ELISA Kit; Human cathepsin D (Cath-D); cathepsin D (Human); Cath-D elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of CTSD. No significant cross-reactivity or interference between CTSD and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between CTSD and all the analogues, therefore, cross reaction may still exist in some cases.
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
Assay Type	Quantitative Competitive
Sensitivity	1.0 ng/mL
Preparation and Storage	Store all reagents at 2-8 degree C

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for Cath-D elisa kit	Intended Uses: This CTSD ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Human CTSD. This ELISA kit for research use only, not for therapeutic or test applications! Principle of the Assay: CTSD ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-CTSD antibody and an CTSD-HRP conjugate. The assay sample and buffer are incubated together with CTSD-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the CTSD concentration since CTSD from samples and CTSD-HRP conjugate compete for the anti-CTSD antibody binding site. Since the number of sites is limited, as more sites are occupied by CTSD from the sample, fewer sites are left to bind CTSD-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The CTSD concentration in each sample is interpolated from this standard curve.
Product Categories/Family for Cath-D elisa kit	Human ELISA Kit

NCBI AND UNIPROT INFORMATION

NCBI GI #	179948
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
NCBI Protein Information	cathepsin D; lysosomal aspartyl protease; lysosomal aspartyl peptidase; ceroid-lipofuscinosis, neuronal 10
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.