

Cystatin D/CST5 ELISA Kit | CST5 elisa kit

Human Cystatin D/CST5 PicoKine ELISA Kit

CATALOG #
AAA125093

REACTIVITY
HumanThere is no detectable cross-reactivity with other relevant proteins.

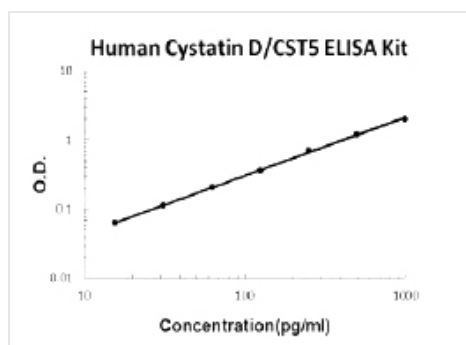
PRODUCT SYNONYMS

Cystatin D/CST5; Human Cystatin D/CST5 PicoKine ELISA Kit; Human Cystatin D/CST5; Cystatin-D; Cystatin-5; CST5; Cystatin D; CST5 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human There is no detectable cross-reactivity with other relevant proteins.
Specificity	Natural and recombinant Human CST1
Sequence Length	142
Samples	Cell Culture Supernates, Serum, Plasma (Heparin, Edta), Saliva And Urine
Detection Range	156pg/ml-10000pg/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 accross 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. Store at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CST5 elisa kit	Principle of the Assay: The Picokine Human CST1 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid phase immunoassay specially designed to measure Human CST1 with a 96-well strip plate that is pre-coated with antibody specific for CST1. The detection antibody is a biotinylated antibody specific for CST1. The capture antibody is a monoclonal antibody from mouse, the detection antibody is a biotinylated polyclonal antibody from goat. The kit contains recombinant Human CST1 with immunogen: Expression system for standard: NSO, Immunogen sequence: W21-S141. The kit is analytically validated with ready to use reagents. To measure Human CST1, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbounded ABC-HRP with PBS or TBS buffer and add TMB. TMB is substrate to HRP and will be catalyzed to produce a blue color product, which changes into yellow after adding acidic stop solution. The density of the yellow product is linearly propotional to Human CST1 in the sample. Read the density of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Human CST1 in the sample!!Background/Introduction: Cystatin-SN is a protein that in humans is encoded by the CST1 gene. The cystatin superfamily encompasses proteins that contain multiple cystatin-like sequences. Some of the members are active cysteine protease inhibitors, while others have lost or perhaps never acquired this inhibitory activity. There are three inhibitory families in the superfamily, including the type 1 cystatins (stefins), type 2 cystatins and the kininogens. The type 2 cystatin proteins are a class of cysteine proteinase inhibitors found in a variety of human fluids and secretions, where they appear to provide protective functions. The cystatin locus on chromosome 20 contains the majority of the type 2 cystatin genes and pseudogenes. This gene is located in the cystatin locus and encodes a cysteine proteinase inhibitor found in saliva, tears, urine, and seminal fluid.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	19882256
NCBI GeneID	1473
NCBI Accession #	NP_001891.2
NCBI GenBank Nucleotide #	NM_001900.5
UniProt Accession #	P28325; Q5JRF5; Q9UCA0
Molecular Weight	16,080 Da
NCBI Official Full Name	cystatin-D
NCBI Official Synonym Full Names	cystatin D
NCBI Official Symbol	CST5
NCBI Protein Information	cystatin-D
UniProt Protein Name	Cystatin-D
UniProt Gene Name	CST5

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.