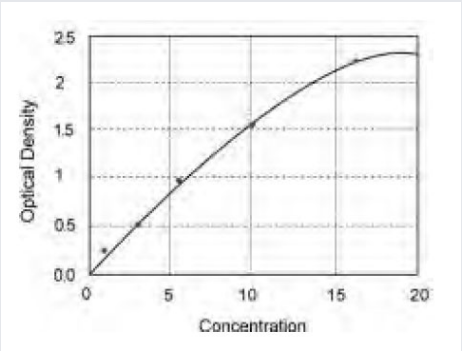
Cystatin Sa (CST2) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Cystatin SA (CST2), ELISA Kit
Full Product Name	Human Cystatin SA ELISA Kit
Product Gene Name	CST2 elisa kit
Species Reactivity	Human
Assay Type	Quantitative Sandwich
Samples	Serum, plasma, cell culture supernates, Ascites, tissue homogenates or other biological fluids
Detection Range	0.19-12ng/ml
Sensitivity	0.09ng/ml
Preparation and Storage	Store at 2 to 8 degree C for 6 months.
Inter-assay Precision	Inter-Assay Precision (Precision between assays) Three samples of known concentration were tested in separate assays to assess inter-assay precision. CV(%) = SD/mean x 100. Inter-Assay: CV<10%
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. Intra-Assay: CV<8%
OMIM	123856
3D Structure	ModBase 3D Structure for P09228
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for CST2 elisa kit	Principle of the Assay: This kit is an Enzyme-Linked Immunosorbent Assay (ELISA). The plate has been pre-coated with Human CST2 antibody. CST2 present in the sample is added and binds to antibodies coated on the wells. And then biotinylated Human CST2 Antibody is added and binds to CST2 in the sample. Then Streptavidin-HRP is added and binds to the Biotinylated CST2 antibody. After incubation unbound Streptavidin-HRP is washed away during a washing step. Substrate solution is then added and color develops in proportion to the amount of Human CST2. The reaction is terminated by addition of acidic stop solution and absorbance is measured at 450 nm. Intended Uses: This sandwich kit is for the accurate quantitative detection of Human Cystatin SA (also known as CST2) in serum, plasma, cell culture supernates, Ascites, tissue homogenates or other biological fluids.
Other Notes	Small volumes of CST2 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CST2 purchase	MBS1603558 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Cystatin SA (CST2) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing CST2. The ELISA analytical biochemical technique of the MBS1603558 kit is based on CST2 antibody-CST2 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CST2 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CST2. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of CST2 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CST2. It may not necessarily be applicable to this product.

NCBI GI #	4503105
NCBI GeneID	1470
NCBI Accession #	NP_001313.1
UniProt Primary Accession #	P09228
UniProt Related Accession #	P09228
GenBank Nucleotide #	NM_001322.3
NCBI Official Full Name	cystatin-SA
NCBI Official Synonym Full Names	cystatin SA
NCBI Official Symbol	CST2
UniProt Protein Name	Cystatin-SA
UniProt Synonym Protein Names	Cystatin-2; Cystatin-S5
Protein Family	Cystatin
UniProt Gene Name	CST2
UniProt Entry Name	CYTT_HUMAN
NCBI Protein Information	cystatin-SA
NCBI Summary for CST2	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 secreted thiol protease inhibitor found at high levels in saliva, tears and seminal plasma. [provided by RefSeq, Jul 2008]

UniProt Comments for CST2	CST2: Thiol protease inhibitor. Belongs to the cystatin family. Protein type: Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 20p11.21 Cellular Component: extracellular space Molecular Function: cysteine protease inhibitor activity Biological Process: detection of chemical stimulus involved in sensory perception of bitter taste
Research Articles on CST2	**1.** interactions of human family 1 & 2 cystatins with cathepsin L1
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