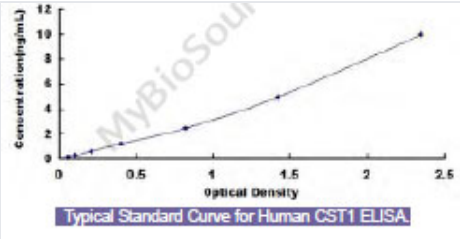
Cystatin 1 (CST1) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Cystatin 1 (CST1), ELISA Kit
Full Product Name	Human Cystatin 1 (CST1) ELISA Kit
Product Gene Name	CST1 elisa kit
Product Synonym Names	Cystatin SN; Salivary cystatin-SA-1
Species Reactivity	Human
Assay Type	Sandwich
Samples	Serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids.
Detection Range	0.156-10ng/mL
Sensitivity	0.057ng/mL
Specificity	This assay has high sensitivity and excellent specificity for detection of CST1. No significant cross-reactivity or interference between CST1 and analogues was observed.
Preparation and Storage	For unopened kit, all reagents should be kept according to the labels on vials. The TMB Substrate, Wash Buffer, Stop Solution should be stored at 4 degree C. All others should be stored at -20 degree C.
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level CST1 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level CST1 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Molecular Weight	16,388 Da
OMIM	M19169 Genomic DNA
3D Structure	ModBase 3D Structure for P01037
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for CST1 elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of CST1 in human serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to CST1. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to CST1. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain CST1, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of CST1 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Other Notes	Small volumes of CST1 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 CST1 purchase	MBS450438 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Cystatin 1 (CST1) 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 CST1. The ELISA analytical biochemical technique of the MBS450438 kit is based on CST1 antibody-CST1 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CST1 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CST1. 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 CST1 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CST1. It may not necessarily be applicable to this product.

NCBI GI #	19882251
NCBI GeneID	1469
NCBI Accession #	NP_001889.2
UniProt Primary Accession #	P01037
UniProt Secondary Accession #	Q96LE6; Q9UCQ6
UniProt Related Accession #	P01037
GenBank Nucleotide #	NM_001898.2
NCBI Official Full Name	cystatin-SN
NCBI Official Synonym Full Names	cystatin SN
NCBI Official Symbol	CST1
UniProt Protein Name	Cystatin-SN
UniProt Synonym Protein Names	Cystain-SA-I; Cystatin-1; Salivary cystatin-SA-1
Protein Family	Cystatin
UniProt Gene Name	CST1
NCBI Protein Information	cystatin-SN
NCBI Summary for CST1	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. [provided by RefSeq, Jul 2008]
UniProt Comments for CST1	Human saliva appears to contain several cysteine proteinase inhibitors that are immunologically related to cystatin S but that differ in their specificity due to amino acid sequence differences. Cystatin SN, with a pI of 7.5, is a much better inhibitor of papain and dipeptidyl peptidase I than is cystatin S, although both inhibit ficin equally well.

Research Articles on CST1	**1.** high expression of Cystatin SN is a significant prognostic indicator of a higher rate of recurrence, metastatic risk, and poor survival in patients with surgically resected NSCLCs.
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