Cystatin-9 (CST9) ELISA Kit for Human

PRODUCT OVERVIEW

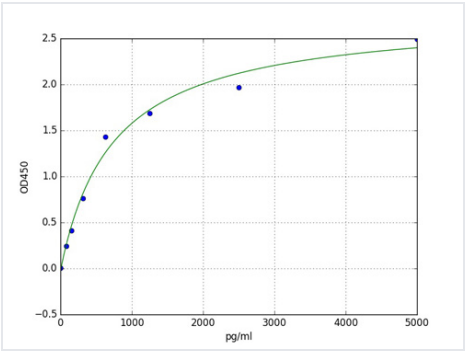
Product Name	Cystatin-9 (CST9), ELISA Kit
Full Product Name	Human Cystatin-9 ELISA Kit
Product Gene Name	CST9 elisa kit
Product Synonym Names	CST9/Cystatin-9/Cystatin-like molecule/CLM
Species Reactivity	Human
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	78.125-5000pg/ml
Sensitivity	46.875pg/ml
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C
Molecular Weight	18,135 Da
OMIM	616543
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for CST9 elisa kit	Principle of the Assay||This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-CST9 antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-CST9 antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and wash with wash buffer. HRP-Streptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were 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 CST9 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of CST9 can be calculated.
Other Notes	Small volumes of CST9 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 CST9 purchase	MBS764862 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Cystatin-9 (CST9) 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 CST9. The ELISA analytical biochemical technique of the MBS764862 kit is based on CST9 antibody-CST9 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CST9 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CST9. 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 Data & Standard Curve

Results of a typical standard run of a CST9 ELISA Kit are shown below. This standard curve was generated at our lab for demonstration purpose only. Each user should obtain their own standard curve as per experiment. (N/A=not applicable)

X	pg/ml	0	78	156	312.5	625	1250	2500	5000
Y	OD450	0.065	0.093	0.139	0.221	0.402	0.762	1.278	2.116

Typical Testing Data of CST9 elisa kit



Typical Standard Curve of CST9 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CST9. It may not necessarily be applicable to this product.

NCBI GI #	226529477
NCBI GeneID	128822
NCBI Accession #	NP_001008693.2
UniProt Secondary Accession #	Q8TD53; B2RP76
UniProt Related Accession #	Q5W186
GenBank Nucleotide #	NM_001008693.2
NCBI Official Full Name	cystatin-9
NCBI Official Synonym Full Names	cystatin 9 (testatin)
NCBI Official Symbol	CST9
NCBI Official Synonym Symbols	CLM; CTES7A
UniProt Protein Name	Cystatin-9
UniProt Synonym Protein Names	Cystatin-like molecule
Protein Family	Chromosome stability protein
UniProt Gene Name	CST9
UniProt Entry Name	CST9_HUMAN
NCBI Protein Information	cystatin-9
NCBI Summary for CST9	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 protein that may play a role in hematopoietic differentiation or inflammation. [provided by RefSeq, Jul 2008]

UniProt Comments for CST9	CST9: May play a role in hematopoietic differentiation or inflammation. Belongs to the cystatin family. Protein type: Secreted, signal peptide; Secreted Chromosomal Location of Human Ortholog: 20p11.21 Cellular Component: extracellular region Molecular Function: cysteine protease inhibitor activity Biological Process: antimicrobial humoral response
Research Articles on CST9	**1.** The current report is the first to show the immunomodulatory and antimicrobial functions of rCST9 against Francisella tularensis.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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