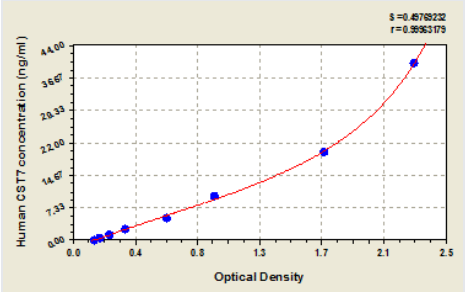
Cystatin F (Leukocystatin) (CST7) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	cystatin F (leukocystatin) (CST7), ELISA Kit
Full Product Name	Human Cystatin-F, CST7 ELISA Kit
Product Gene Name	CST7 elisa kit
Product Synonym Names	Human Cystatin-F (CST7) ELISA kit; CMAP; cystatin F; cystatin-7; cystatin-F; cystatin-like metastasis-associated protein; cystatin F (leukocystatin)
Species Reactivity	Human
Assay Type	Quantitative Sandwich
Samples	Serum, plasma, cell culture supernates
Detection Range	0.625 ng/ml-40 ng/ml
Sensitivity	<0.156 ng/ml
Specificity	This assay has high sensitivity and excellent specificity for detection of human CST7. No significant cross-reactivity or interference between human CST7 and analogues was observed.
Preparation and Storage	Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.
Inter-assay Precision	Inter-assay Precision (Precision between assays): CV%<10%. Three samples of known concentration were tested in twenty assays to assess.
Intra-assay Precision	Intra-assay Precision (Precision within an assay): CV%<8%. Three samples of known concentration were tested twenty times on one plate to assess.
Molecular Weight	16,454 Da
OMIM	603253
3D Structure	ModBase 3D Structure for O76096
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for CST7 elisa kit	Principle of the Assay: This assay employs the quantitative sandwich enzyme immunoassay technique. Antibody specific for CST7 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any CST7 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for CST7 is added to the wells. After washing, avidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of CST7 bound in the initial step. The color development is stopped and the intensity of the color is measured.
Other Notes	Small volumes of CST7 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 CST7 purchase	MBS928755 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the cystatin F (leukocystatin) (CST7) 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 CST7. The ELISA analytical biochemical technique of the MBS928755 kit is based on CST7 antibody-CST7 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CST7 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CST7. 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 CST7 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CST7. It may not necessarily be applicable to this product.

NCBI GI #	262263314
NCBI GeneID	8530
NCBI Accession #	NP_003641.3
UniProt Primary Accession #	O76096
UniProt Secondary Accession #	Q6FH95; Q7Z4J8; Q9UED4
UniProt Related Accession #	O76096
GenBank Nucleotide #	NM_003650.3
NCBI Official Full Name	cystatin-F
NCBI Official Synonym Full Names	cystatin F (leukocystatin)
NCBI Official Symbol	CST7
NCBI Official Synonym Symbols	CMAP
UniProt Protein Name	Cystatin-F
UniProt Synonym Protein Names	Cystatin-7; Cystatin-like metastasis-associated protein; CMAP; Leukocystatin
Protein Family	Cystatin
UniProt Gene Name	CST7
UniProt Synonym Gene Names	CMAP
UniProt Entry Name	CYTF_HUMAN
NCBI Protein Information	cystatin-F; cystatin-7; leukocystatin; cystatin-like metastasis-associated protein
NCBI Summary for CST7	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. This gene encodes a glycosylated cysteine protease inhibitor with a putative role in immune regulation through inhibition of a unique target in the hematopoietic system. Expression of the protein has been observed in various human cancer cell lines established from malignant tumors. [provided by RefSeq, Jul 2008]

UniProt Comments for CST7	CST7: Inhibits papain and cathepsin L but with affinities lower than other cystatins. May play a role in immune regulation through inhibition of a unique target in the hematopoietic system. Belongs to the cystatin family. Protein type: Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 20p11.21 Cellular Component: cytoplasm; extracellular region Molecular Function: protein binding; endopeptidase inhibitor activity; cysteine protease inhibitor activity Biological Process: immune response
Research Articles on CST7	**1.** Regulation of cathepsins S and L by cystatin F during maturation of dendritic cells.
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.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/cst7-human-elisa-kits/cystatin-f-leukocystatin/928755