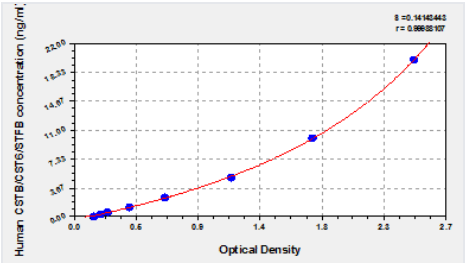
Cystatin B (Stefin B) (CSTB) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	cystatin B (stefin B) (CSTB), ELISA Kit
Full Product Name	Human Cystatin-B, CSTB/CST6/STFB ELISA Kit
Product Gene Name	CSTB elisa kit
Product Synonym Names	Human Cystatin-B (CSTB/CST6/STFB) ELISA kit; CST6; EPM1; PME; STFB; CPI-B; cystatin B; liver thiol proteinase inhibitor; stefin B; Human Cystatin-B (CSTB/CST6/STFB)
Species Reactivity	Human
Assay Type	Sandwich
Samples	Serum, plasma, cell culture supernates, urine, saliva, tissue homogenates, Cell lysates
Detection Range	0.313 ng/ml-20 ng/ml
Sensitivity	0.233 ng/ml
Specificity	This assay has high sensitivity and excellent specificity for detection of Human CSTB. No significant cross-reactivity or interference between Human CSTB 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.
Intra-assay Precision	Intra-assay Precision (Precision within an assay): CV% is less than 8% Three samples of known concentration were tested twenty times on one plate to assess. Inter-assay Precision (Precision between assays): CV% is less than 10% Three samples of known concentration were tested in twenty assays to assess.
Molecular Weight	11,140 Da
OMIM	601145
3D Structure	ModBase 3D Structure for P04080
Detection Wavelength	450 nm
Sample Volume	50-100ul
Protein Biological Process 1	others
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for CSTB elisa kit	**Principle of the Assay:** This assay employs the quantitative sandwich enzyme immunoassay technique. Antibody specific for cystatin-B has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any cystatin-B present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for cystatin-B 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 cystatin-B bound in the initial step. The color development is stopped and the intensity of the color is measured.
Other Notes	Small volumes of CSTB 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 CSTB purchase	MBS705920 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the cystatin B (stefin B) (CSTB) 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 CSTB. The ELISA analytical biochemical technique of the MBS705920 kit is based on CSTB antibody-CSTB antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CSTB antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CSTB. 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 CSTB elisa kit

ADDITIONAL DETAILS

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

NCBI GI #	4503117
NCBI GeneID	1476
NCBI Accession #	NP_000091.1
UniProt Primary Accession #	P04080
UniProt Related Accession #	P04080
GenBank Nucleotide #	NM_000100.3
NCBI Official Full Name	cystatin-B
NCBI Official Synonym Full Names	cystatin B (stefin B)
NCBI Official Symbol	CSTB
NCBI Official Synonym Symbols	PME; ULD; CST6; EPM1; STFB; EPM1A
UniProt Protein Name	Cystatin-B
UniProt Synonym Protein Names	CPI-B; Liver thiol proteinase inhibitor; Stefin-B
Protein Family	Cystatin
UniProt Gene Name	CSTB
UniProt Synonym Gene Names	CST6; STFB
UniProt Entry Name	CYTB_HUMAN
NCBI Protein Information	cystatin-B; CPI-B; liver thiol proteinase inhibitor
NCBI Summary for CSTB	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 kininogens. This gene encodes a stefin that functions as an intracellular thiol protease inhibitor. The protein is able to form a dimer stabilized by noncovalent forces, inhibiting papain and cathepsins l, h and b. The protein is thought to play a role in protecting against the proteases leaking from lysosomes. Evidence indicates that mutations in this gene are responsible for the primary defects in patients with progressive myoclonic epilepsy (EPM1). [provided by RefSeq, Jul 2008]

UniProt Comments for CSTB	**Function:** This is an intracellular thiol proteinase inhibitor. Tightly binding reversible inhibitor of cathepsins L, H and B.
Research Articles on CSTB	**1.** High levels of bioactive recombinant stefins A and B can be produced by fermentation in P. pastoris.
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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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.

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