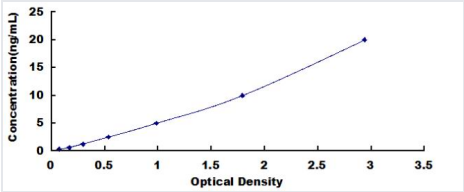
Cystatin B (CSTB) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Cystatin B (CSTB), ELISA Kit
Full Product Name	Human Cystatin B (CSTB) ELISA Kit
Product Gene Name	CSTB elisa kit
Product Synonym Names	Cys-B; CST6; EPM1; PME; STFB; CPI-B; Stefin B; Liver thiol proteinase inhibitor
Species Reactivity	Human
Assay Type	Sandwich
Samples	Serum, Plasma, Tissue Homogenates or Other Biological Fluids.
Detection Range	0.312-20ng/mL
Sensitivity	0.118ng/mL
Preparation and Storage	For unopened kits: All the reagents should be kept at 4 degree C upon receipt. For opened kits: Once the kit is opened, the remaining reagents still need to be stored according to the above storage conditions. In addition, return the unused wells to the foil pouch containing the desiccant pack and reseal along entire edge of zip-seal.
Molecular Weight	11,140 Da
OMIM	254800
3D Structure	ModBase 3D Structure for P04080
RTU ELISA Kit's Advantage	The Ready-To-Use (RTU) Kits require fewer steps in setup and take less time to run. Detection Solutions are pre-diluted and total incubation time is shorter than many other ELISA Kits.
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for CSTB elisa kit	Test Principle: The microtiter plate provided in this kit has been pre-coated with an antibody specific to CSTB. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to CSTB. 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 CSTB, 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 CSTB in the samples is then determined by comparing the O.D. of the samples to the standard curve.
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	MBS458625 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Cystatin 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 MBS458625 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
NCBI Official Symbol	CSTB
NCBI Official Synonym Symbols	PME; ULD; CST6; EPM1; STFB; CPI-B; 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
NCBI Protein Information	cystatin-B
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). One type of mutation responsible for EPM1 is the expansion in the promoter region of this gene of a CCCCGCCCCGCG repeat from 2-3 copies to 30-78 copies. [provided by RefSeq, Jul 2016]
UniProt Comments for CSTB	This is an intracellular thiol proteinase inhibitor. Tightly binding reversible inhibitor of cathepsins L, H and B.
Research Articles on CSTB	**1.** The results demonstrate that cystatin B interferes with the STAT-1 signaling and IFN-beta-antiviral responses perpetuating HIV in macrophage reservoirs.
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