Cystatin 4 (CST4) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Cystatin 4 (CST4), ELISA Kit
Full Product Name	Human Cystatin 4 ELISA Kit
Product Gene Name	CST4 elisa kit
Species Reactivity	Human
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	16,214 Da
OMIM	123857
3D Structure	ModBase 3D Structure for P01036
Related Product Information for CST4 elisa kit	MBS090067 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Cystatin 4 (CST4) 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 CST4. The ELISA analytical biochemical technique of the MBS090067 kit is based on CST4 antibody-CST4 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CST4 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CST4. 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(%).
Other Notes	Small volumes of CST4 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CST4. It may not necessarily be applicable to this product.

NCBI GI #	4503109
NCBI GeneID	1472
NCBI Accession #	NP_001890.1
UniProt Primary Accession #	P01036
UniProt Secondary Accession #	Q9UBI5; Q9UCS9
UniProt Related Accession #	P01036
GenBank Nucleotide #	NM_001899.2
NCBI Official Full Name	cystatin-S
NCBI Official Synonym Full Names	cystatin S
NCBI Official Symbol	CST4
UniProt Protein Name	Cystatin-S
UniProt Synonym Protein Names	Cystatin-4; Cystatin-SA-III; Salivary acidic protein 1
Protein Family	Cystatin
UniProt Gene Name	CST4

UniProt Entry Name	CYTS_HUMAN
NCBI Protein Information	cystatin-S; cystatin 4; cystatin-4; cystatin-SA-III; salivary acidic protein 1
NCBI Summary for CST4	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. 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 type 2 salivary cysteine peptidase inhibitor. The protein is an S-type cystatin, based on its high level of expression in saliva, tears and seminal plasma. The specific role in these fluids is unclear but antibacterial and antiviral activity is present, consistent with a protective function. [provided by RefSeq, Jul 2008]
UniProt Comments for CST4	CST4: This protein strongly inhibits papain and ficin, partially inhibits stem bromelain and bovine cathepsin C, but does not inhibit porcine cathepsin B or clostripain. Papain is inhibited non-competitively. Belongs to the cystatin family. Protein type: Inhibitor; Secreted, signal peptide; Secreted Chromosomal Location of Human Ortholog: 20p11.21 Cellular Component: extracellular space Molecular Function: cysteine protease inhibitor activity Biological Process: negative regulation of proteolysis; retinal homeostasis; detection of chemical stimulus involved in sensory perception of bitter taste
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