Cystatin 1 (CST1) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Cystatin 1 (CST1), ELISA Kit
Full Product Name	Human Cystatin 1 ELISA Kit
Product Gene Name	CST1 elisa kit
Species Reactivity	Human
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	16,388 Da
OMIM	123855
3D Structure	ModBase 3D Structure for P01037
Related Product Information for CST1 elisa kit	MBS091346 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Cystatin 1 (CST1) 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 CST1. The ELISA analytical biochemical technique of the MBS091346 kit is based on CST1 antibody-CST1 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CST1 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CST1. 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 CST1 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 CST1. It may not necessarily be applicable to this product.

NCBI GI #	337752
NCBI GeneID	1469
NCBI Accession #	AAA60299.1
UniProt Primary Accession #	P01037
UniProt Secondary Accession #	Q96LE6; Q9UCQ6
UniProt Related Accession #	P01037
NCBI Official Full Name	cystatin
NCBI Official Synonym Full Names	cystatin SN
NCBI Official Symbol	CST1
UniProt Protein Name	Cystatin-SN
UniProt Synonym Protein Names	Cystain-SA-I; Cystatin-1; Salivary cystatin-SA-1
Protein Family	Cystatin
UniProt Gene Name	CST1
UniProt Entry Name	CYTN_HUMAN

NCBI Protein Information	cystatin-SN; cystatin 1; cystatin-1; cystain-SA-I; cystatin SA-I; salivary cystatin-SA-1; cysteine proteinase inhibitor, type 2 family
NCBI Summary for CST1	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 cysteine proteinase inhibitor found in saliva, tears, urine, and seminal fluid. [provided by RefSeq, Jul 2008]
UniProt Comments for CST1	CST1: Human saliva appears to contain several cysteine proteinase inhibitors that are immunologically related to cystatin S but that differ in their specificity due to amino acid sequence differences. Cystatin SN, with a pI of 7.5, is a much better inhibitor of papain and dipeptidyl peptidase I than is cystatin S, although both inhibit ficin equally well. Belongs to the cystatin family. Protein type: Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 20p11.21 Cellular Component: extracellular space Molecular Function: cysteine protease inhibitor activity Biological Process: detection of chemical stimulus involved in sensory perception of bitter taste
Research Articles on CST1	**1.** CST1 may contribute to inactivation of protease allergens and help re-establish homeostasis of the nasal membranes.
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