



# Human Cystatin-F(CST7)ELISA kit

<b>Product Code</b>	CSB-E17504h
<b>Abbreviation</b>	CST7
<b>Target Name</b>	cystatin F (leukocystatin)
<b>Uniprot No.</b>	O76096
<b>Alias</b>	CMAF, cystatin F cystatin-7 cystatin-F cystatin-like metastasis-associated protein
<b>Product Type</b>	ELISA Kit
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Sample Types</b>	serum, plasma, cell culture supernates
<b>Detection Range</b>	0.625 ng/mL-40 ng/mL
<b>Sensitivity</b>	0.156 ng/mL
<b>Assay Time</b>	1-5h
<b>Sample Volume</b>	50-100ul
<b>Detection Wavelength</b>	450 nm
<b>Lead Time</b>	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
<b>Research Area</b>	Cell Biology
<b>Gene Names</b>	CST7
<b>Tag Info</b>	quantitative
<b>Protein Description</b>	Sandwich
<b>Description</b>	This Human CST7 ELISA Kit was designed for the quantitative measurement of Human CST7 protein in serum, plasma, cell culture supernates. It is a Sandwich ELISA kit, its detection range is 0.625 ng/mL-40 ng/mL and the sensitivity is 0.156 ng/mL.
<b>Target Details</b>	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.
<b>Product Precision</b>	<b>Intra-assay Precision (Precision within an assay): CV%&lt;8%</b>



Three samples of known concentration were tested twenty times on one plate to assess.

**Inter-assay Precision (Precision between assays): CV%<10%**

Three samples of known concentration were tested in twenty assays to assess.

**Linearity**

To assess the linearity of the assay, samples were spiked with high concentrations of human CST7 in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

?	Sample	Serum(n=4)
	Average %	93
1:1	Range %	85-97
	Average %	98
1:2	Range %	91-101
	Average %	94
1:4	Range %	85-97
	Average %	90
1:8	Range %	84-95

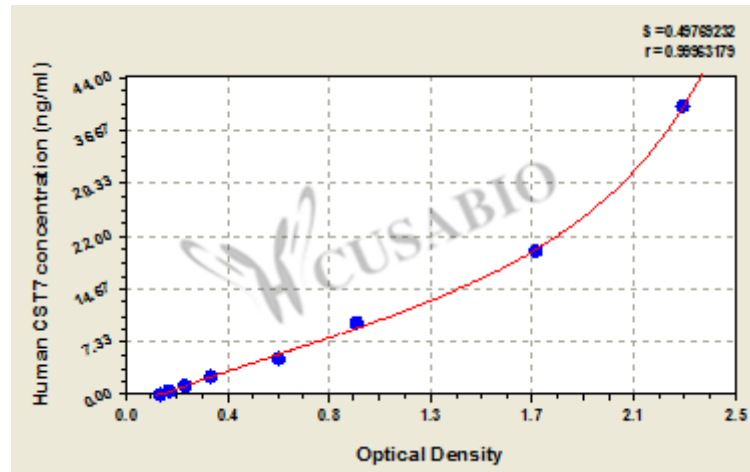
**Recovery**

The recovery of human CST7 spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

Sample Type	Average % Recovery	Range
Serum (n=5)	100	94-107
EDTA plasma (n=4)	106	98-112

**Typical**

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



ng/ml	OD1	OD2	Average	Corrected
40	2.319	2.235	2.277	2.124
20	1.685	1.671	1.678	1.525
10	0.978	0.927	0.953	0.800
5	0.641	0.627	0.634	0.481
2.5	0.355	0.369	0.362	0.209
1.25	0.247	0.260	0.254	0.101
0.625	0.195	0.188	0.192	0.039
0	0.151	0.155	0.153	?

## Msds

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