



Human Lysosomal protective protein(CTSA)

ELISA kit

Product Code	CSB-EL006184HU
Abbreviation	CTSA
Target Name	cathepsin A
Uniprot No.	P10619
Alias	RP3-337O18.1, GLB2, GSL, NGBE, PPCA, PPGB, OTTHUMP00000031779 beta-galactosidase 2 beta-galactosidase protective protein
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum, plasma, tissue homogenates, cell lysates
Detection Range	15.6 pg/mL-1000 pg/mL
Sensitivity	3.9 pg/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Signal Transduction
Gene Names	CTSA
Tag Info	quantitative
Protein Description	Sandwich
Description	This Human CTSA ELISA Kit was designed for the quantitative measurement of Human CTSA protein in serum, plasma, tissue homogenates, cell lysates. It is a Sandwich ELISA kit, its detection range is 15.6 pg/mL-1000 pg/mL and the sensitivity is 3.9 pg/mL.
Target Details	This gene encodes a glycoprotein which associates with lysosomal enzymes beta-galactosidase and neuraminidase to form a complex of high molecular weight multimers. The formation of this complex provides a protective role for stability and activity. Deficiencies in this gene are linked to multiple forms of galactosialidosis. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
Product Precision	Intra-assay Precision (Precision within an assay): CV%<8%



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 CTSA 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)
1:1	Average %	92
	Range %	88-96
1:2	Average %	89
	Range %	85-93
1:4	Average %	106
	Range %	102-109
1:8	Average %	94
	Range %	87-98

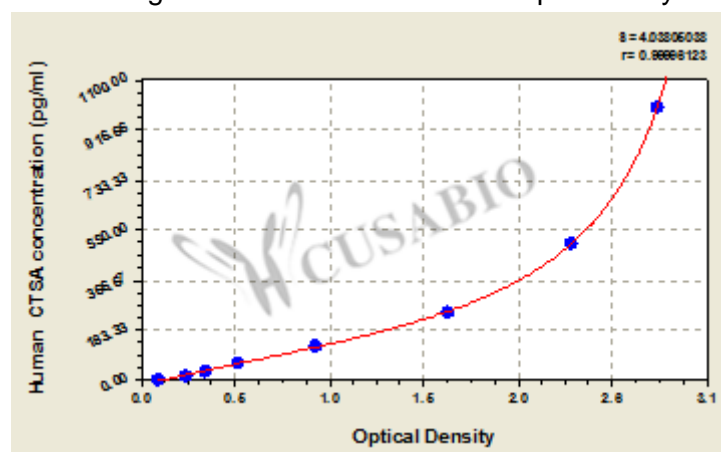
Recovery

The recovery of human CTSA 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)	91	85-96
EDTA plasma (n=4)	96	92-99

Typical

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



pg/ml	OD1	OD2	Average	Corrected
1000	2.745	2.849	2.797	2.693
500	2.257	2.412	2.335	2.231
250	1.616	1.717	1.667	1.563
125	0.943	0.965	0.954	0.850
62.5	0.547	0.524	0.536	0.432
31.2	0.354	0.363	0.359	0.255
15.6	0.245	0.254	0.250	0.146
0	0.103	0.105	0.104	

**Msds**

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