Human cathepsin H (CTSH) ELISA kit

Product Code	CSB-E13723h
Abbreviation	CTSH
Target Name	cathepsin H
Uniprot No.	P09668
Alias	ACC-4, ACC-5, CPSB, DKFZp686B24257, MGC1519, minichain, N-benzoylarginine-beta-naphthylamide hydrolase|aleurain|cathepsin B3|cathepsin BA
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum, plasma, tissue homogenates, cell lysates
Detection Range	0.312 ng/mL-20 ng/mL
Sensitivity	0.078 ng/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	CTSH
Tag Info	quantitative
Protein Description	Sandwich
Target Details	This protein is a lysosomal cysteine proteinase important in the overall degradation of lysosomal proteins. It is composed of a dimer of disulfide-linked heavy and light chains, both produced from a single protein precursor. The encoded protein, which belongs to the peptidase C1 protein family, can act both as an aminopeptidase and as an endopeptidase. Increased expression of this gene has been correlated with malignant progression of prostate tumors. Two transcript variants encoding different isoforms have been found for this gene.
Product Precision	**Intra-assay Precision (Precision within an assay): CV%<10%** Three samples of known concentration were tested twenty times on one plate to assess. **Inter-assay Precision (Precision between assays): CV%<15%** 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 CTSH 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 %	96
	Range %	89-106
1:2	Average %	89
	Range %	82-97
1:4	Average %	94
	Range %	85-105
1:8	Average %	95
	Range %	85-101

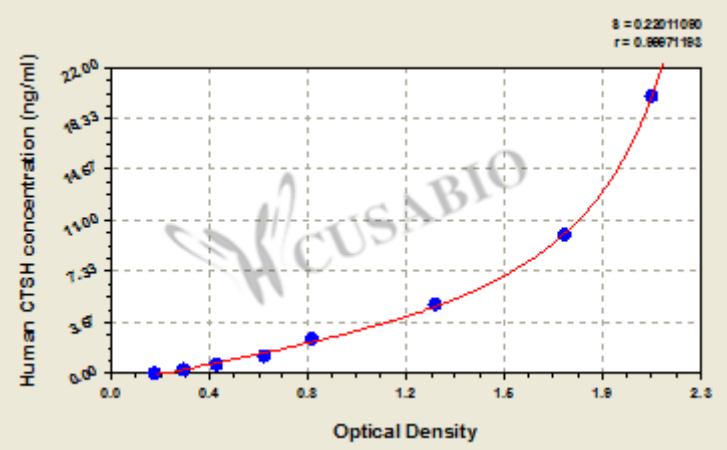
Recovery

The recovery of human CTSH 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)	95	89-100
EDTA plasma (n=4)	95	87-105

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
20	2.142	2.099	2.121	1.934
10	1.765	1.798	1.782	1.595
5	1.264	1.295	1.280	1.093
2.5	0.789	0.811	0.800	0.613
1.25	0.604	0.621	0.613	0.426
0.625	0.422	0.436	0.429	0.242
0.312	0.302	0.299	0.301	0.114
0	0.186	0.187	0.187	?

Msds

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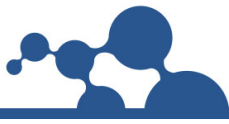

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