



Human cathepsin D,cath-D ELISA Kit

Product Code	CSB-E09221h
Abbreviation	CTSD
Target Name	cathepsin D
Uniprot No.	P07339
Alias	CLN10, CPSD, MGC2311, ceroid-lipofuscinosis, neuronal 10 lysosomal aspartyl peptidase lysosomal aspartyl protease
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum, plasma, tissue homogenates, ascitic fluid
Detection Range	83 pg/mL-2000 pg/mL
Sensitivity	33 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	CTSD
Tag Info	quantitative
Protein Description	Sandwich
Description	This Human CTSD ELISA Kit was designed for the quantitative measurement of Human CTSD protein in serum, plasma, tissue homogenates, ascitic fluid. It is a Sandwich ELISA kit, its detection range is 83 pg/mL-2000 pg/mL and the sensitivity is 33 pg/mL .
Target Details	This gene encodes a lysosomal aspartyl protease composed of a dimer of disulfide-linked heavy and light chains, both produced from a single protein precursor. This proteinase, which is a member of the peptidase C1 family, has a specificity similar to but narrower than that of pepsin A. Transcription of this gene is initiated from several sites, including one which is a start site for an estrogen-regulated transcript. Mutations in this gene are involved in the pathogenesis of several diseases, including breast cancer and possibly Alzheimer disease.
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 cath-D 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 %	85-98
1:2	Average %	96
	Range %	88-100
1:4	Average %	95
	Range %	89-100
1:8	Average %	97
	Range %	91-101

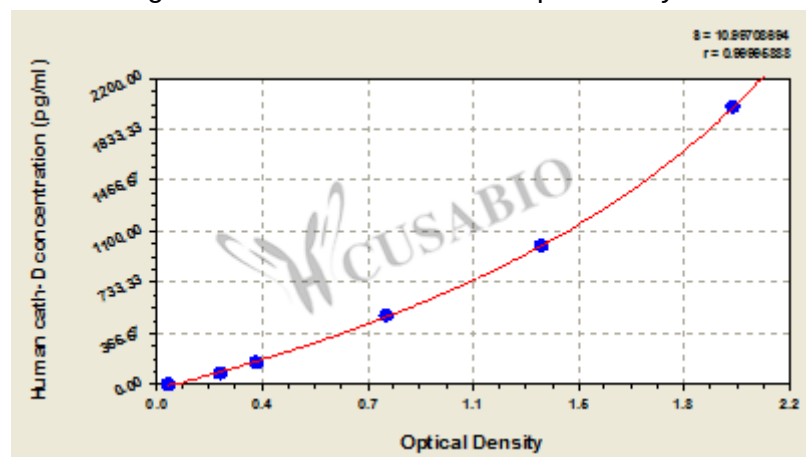
Recovery

The recovery of human cath-D 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)	92	89-96
EDTA plasma (n=4)	95	91-101

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
2000	2.004	1.997	2.001	1.953
1000	1.321	1.356	1.339	1.291
500	0.785	0.821	0.803	0.755
167	0.364	0.341	0.353	0.305
83	0.216	0.229	0.223	0.175
0	0.047	0.048	0.048	?

Msds

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