



Human Cathepsin G(cath-G)ELISA Kit

Product Code	CSB-E16388h
Abbreviation	CTSG
Target Name	cathepsin G
Uniprot No.	P08311
Alias	CG, MGC23078
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum, plasma, tissue homogenates
Detection Range	31.25 pg/mL-2000 pg/mL
Sensitivity	7.8 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	CTSG
Tag Info	quantitative
Protein Description	Sandwich
Description	This Human CTSG ELISA Kit was designed for the quantitative measurement of Human CTSG protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 31.25 pg/mL-2000 pg/mL and the sensitivity is 7.8 pg/mL.
Target Details	This protein, a member of the peptidase S1 protein family, is found in azurophil granules of neutrophilic polymorphonuclear leukocytes. The encoded protease has a specificity similar to that of chymotrypsin C, and may participate in the killing and digestion of engulfed pathogens, and in connective tissue remodeling at sites of inflammation. Transcript variants utilizing alternative polyadenylation signals exist 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 cath-G 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 %	92
1:5	Range %	80-99
	Average %	97
1:10	Range %	91-105
	Average %	97
1:20	Range %	88-110
	Average %	93
1:40	Range %	85-98

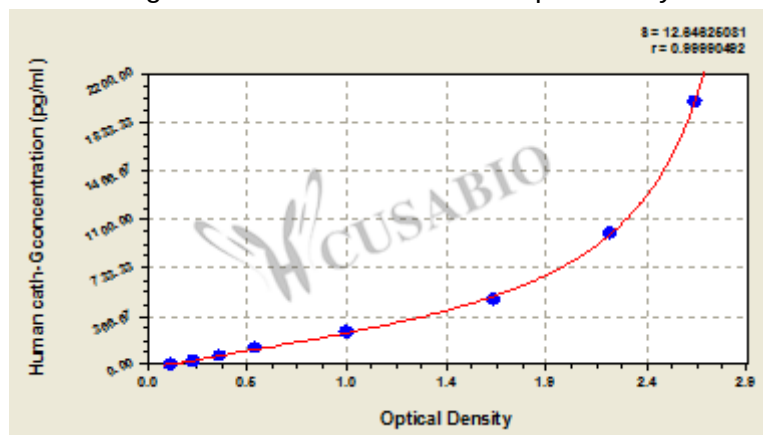
Recovery

The recovery of human cath-G 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	89-98
EDTA plasma (n=4)	96	91-100

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	2.617	2.654	2.636	2.512
1000	2.205	2.254	2.230	2.106
500	1.636	1.705	1.671	1.547
250	0.943	0.989	0.966	0.842
125	0.509	0.554	0.532	0.408
62.5	0.352	0.369	0.361	0.237
31.25	0.226	0.241	0.234	0.110
0	0.122	0.126	0.124	?

Msds

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