



Human chaperonin 10,CPN10 ELISA Kit

Product Code	CSB-E09917h
Abbreviation	HSPE1
Protein Biological Process 1	Neurobiology
Target Name	heat shock 10kDa protein 1 (chaperonin 10)
Uniprot No.	P61604
Alias	CPN10, GROES, HSP10, chaperonin 10 heat shock 10kD protein 1 (chaperonin 10) heat shock 10kDa protein 1
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Stress response
Sample Types	serum, plasma, tissue homogenates
Detection Range	0.16 ng/mL-10 ng/mL
Sensitivity	0.04 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	Neuroscience
Gene Names	HSPE1
Tag Info	quantitative
Protein Description	Sandwich
Description	This Human HSPE1 ELISA Kit was designed for the quantitative measurement of Human HSPE1 protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 0.16 ng/mL-10 ng/mL and the sensitivity is 0.04 ng/mL.
Target Details	This gene encodes a major heat shock protein which functions as a chaperonin. Its structure consists of a heptameric ring which binds to another heat shock protein in order to form a symmetric, functional heterodimer which enhances protein folding in an ATP-dependent manner. This gene and its co-chaperonin, HSPD1, are arranged in a head-to-head orientation on chromosome 2.
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 CPN10 in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

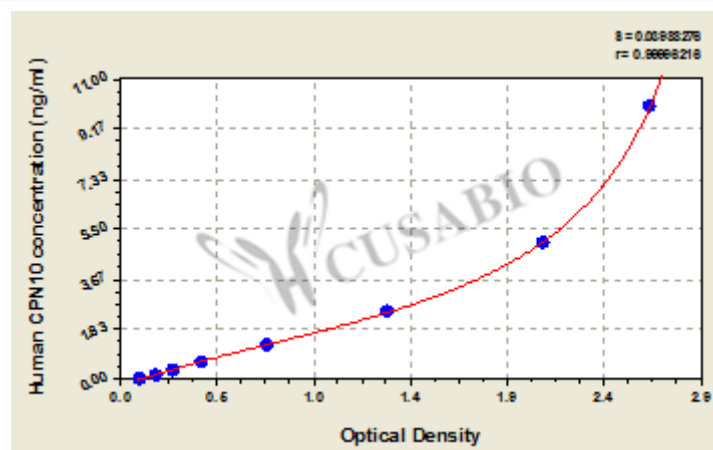
?	Sample	Serum(n=4)
1:1	Average %	92
	Range %	88-94
1:2	Average %	102
	Range %	97-107
1:4	Average %	94
	Range %	87-98
1:8	Average %	102
	Range %	98-106

Recovery

The recovery of human CPN10 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)	89	83-94
EDTA plasma (n=4)	92	87-96

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
10	2.688	2.579	2.634	2.525
5	2.154	2.054	2.104	1.995
2.5	1.365	1.302	1.334	1.225
1.25	0.742	0.734	0.738	0.629
0.63	0.417	0.405	0.411	0.302
0.31	0.274	0.266	0.270	0.161
0.16	0.186	0.183	0.185	0.076
0	0.110	0.108	0.109	?

Msds

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