Human Heat Shock Protein 60,HSP-60 ELISA Kit

Product Code	CSB-E08560h
Abbreviation	HSPD1
Protein Biological Process 1	Immunity
Target Name	heat shock 60kDa protein 1 (chaperonin)
Uniprot No.	P10809
Alias	CPN60, GROEL, HLD4, HSP60, HSP65, HuCHA60, SPG13, P60 lymphocyte protein|chaperonin|heat shock protein 65|mitochondrial matrix protein P1|short heat shock protein 60 Hsp60s1
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Host-virus interaction
Sample Types	serum, plasma, tissue homogenates
Detection Range	1.56 ng/mL-100 ng/mL
Sensitivity	0.39 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	Immunology
Gene Names	HSPD1
Tag Info	quantitative
Protein Description	Sandwich
Description	This Human HSPD1 ELISA Kit was designed for the quantitative measurement of Human HSPD1 protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 1.56 ng/mL-100 ng/mL and the sensitivity is 0.39 ng/mL.
Target Details	This gene encodes a member of the chaperonin family. The encoded mitochondrial protein may function as a signaling molecule in the innate immune system. This protein is essential for the folding and assembly of newly imported proteins in the mitochondria. This gene is adjacent to a related family member and the region between the 2 genes functions as a bidirectional promoter. Two pseudogenes, both located on chromosome 8, have been associated with this

gene. Two transcript variants encoding the same protein have been identified for this gene. Mutations associated with this gene cause autosomal recessive spastic paraplegia 13.

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 HSP-60 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 %	90-100
1:2	Average %	93
	Range %	88-99
1:4	Average %	87
	Range %	83-96
1:8	Average %	90
	Range %	86-84

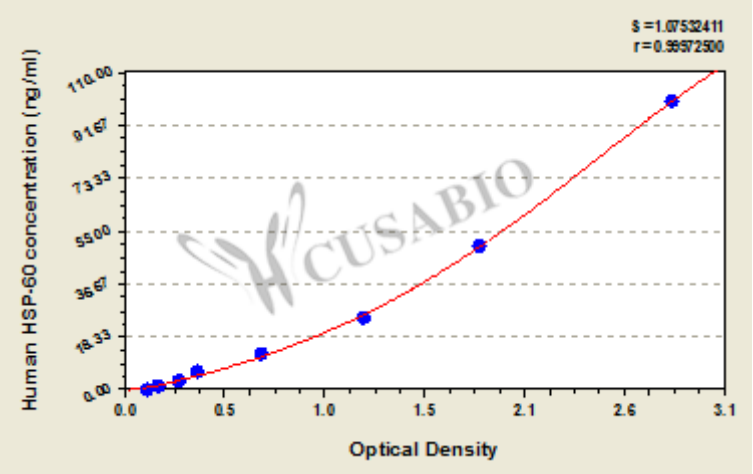
Recovery

The recovery of human HSP-60 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)	87	82-90
EDTA plasma (n=4)	90	85-96

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
100	2.821	2.802	2.812	2.690
50	1.886	1.766	1.826	1.704
25	1.236	1.232	1.234	1.112
12.5	0.719	0.702	0.711	0.589
6.25	0.383	0.378	0.381	0.259
3.12	0.293	0.278	0.286	0.164
1.56	0.190	0.178	0.184	0.062
0	0.125	0.119	0.122	?

Msds

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