



Mouse Peroxisome proliferator-activated receptor gamma coactivator 1-alpha (PPARGC1A) ELISA kit

Product Code	CSB-EL018425MO
Abbreviation	PPARGC1A
Protein Biological Process 1	Transcription/Transcription regulation
Target Name	peroxisome proliferator-activated receptor gamma, coactivator 1 alpha
Uniprot No.	O70343
Alias	LEM6, PGC-1(alpha), PGC-1v, PGC1, PGC1A, PPARGC1, PPAR gamma coactivator variant form PPAR gamma coactivator-1 ligand effect modulator-6 peroxisome proliferative activated receptor, gamma, coactivat
Product Type	ELISA Kit
Immunogen Species	Mus musculus (Mouse)
Protein Biological Process 3	Transcription
Sample Types	serum, plasma, tissue homogenates
Detection Range	23.5 pg/mL-1500 pg/mL
Sensitivity	5.86 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	Metabolism
Gene Names	Ppargc1a
Tag Info	quantitative
Protein Description	Sandwich
Description	This Mouse PPARGC1A ELISA Kit was designed for the quantitative measurement of Mouse PPARGC1A protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 23.5 pg/mL-1500 pg/mL and the sensitivity is 5.86 pg/mL.
Target Details	This protein is a transcriptional coactivator that regulates the genes involved in



energy metabolism. This protein interacts with PPARgamma, which permits the interaction of this protein with multiple transcription factors. This protein can interact with, and regulate the activities of, cAMP response element binding protein (CREB) and nuclear respiratory factors (NRFs). It provides a direct link between external physiological stimuli and the regulation of mitochondrial biogenesis, and is a major factor that regulates muscle fiber type determination. This protein may be also involved in controlling blood pressure, regulating cellular cholesterol homoeostasis, and the development of obesity.

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 mouse PPARGC1A 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 %	93
	Range %	86-96
1:2	Average %	104
	Range %	97-108
1:4	Average %	94
	Range %	87-98
1:8	Average %	99
	Range %	92-102

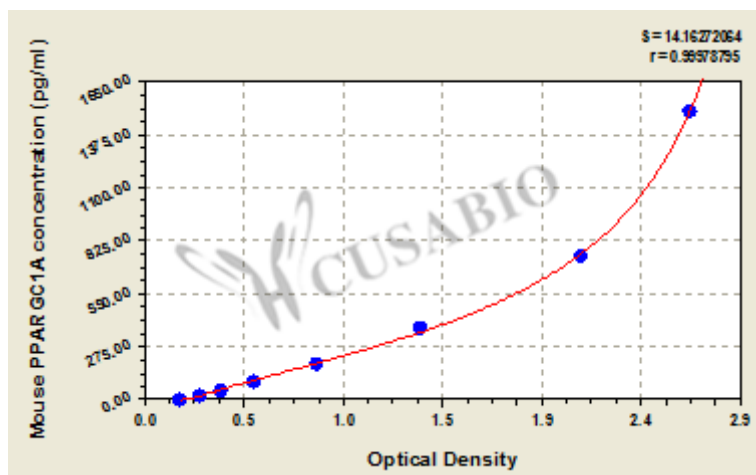
Recovery

The recovery of mouse PPARGC1A 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)	93	87-97
EDTA plasma (n=4)	99	90-102

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
1500	2.730	2.582	2.656	2.466
750	2.181	2.076	2.129	1.939
375	1.365	1.345	1.355	1.165
187.5	0.871	0.832	0.852	0.662
94	0.550	0.541	0.546	0.356
47	0.385	0.378	0.382	0.192
23.5	0.288	0.279	0.284	0.094
0	0.192	0.188	0.190	

Msds

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