



Human Arginase-1(ARG1) ELISA kit

Product Code	CSB-EL002005HU
Protein Biological Process 2	Amino-acid biosynthesis and metabolism
Abbreviation	ARG1
Protein Biological Process 1	Biosynthesis/Metabolism
Target Name	arginase, liver
Uniprot No.	P05089
Alias	arginase 1 liver-type arginase type I arginase
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Arginine metabolism
Sample Types	serum, plasma, tissue homogenates, ascitic fluid
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	Metabolism
Gene Names	ARG1
Tag Info	quantitative
Protein Description	Sandwich
Description	This Human ARG1 ELISA Kit was designed for the quantitative measurement of Human ARG1 protein in serum, plasma, tissue homogenates, ascitic fluid. 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	Arginase catalyzes the hydrolysis of arginine to ornithine and urea. At least two isoforms of mammalian arginase exist (types I and II) which differ in their tissue distribution, subcellular localization, immunologic crossreactivity and physiologic function. The type I isoform encoded by this gene, is a cytosolic enzyme and expressed predominantly in the liver as a component of the urea cycle. Inherited



deficiency of this enzyme results in argininemia, an autosomal recessive disorder characterized by hyperammonemia.

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 ARG1 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 %	91
	Range %	87-93
1:2	Average %	103
	Range %	100-105
1:4	Average %	93
	Range %	87-96
1:8	Average %	98
	Range %	93-101

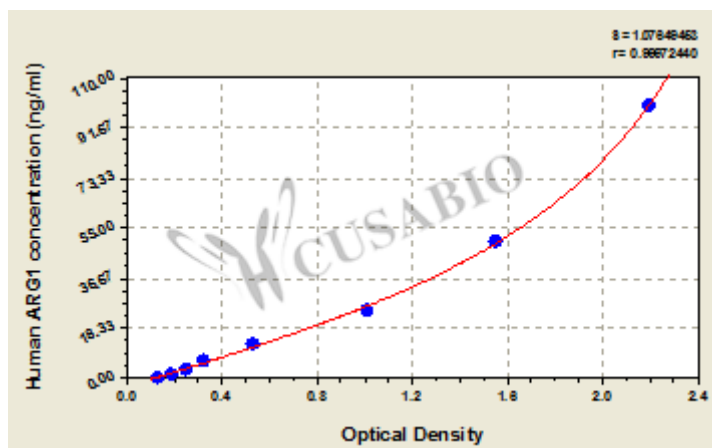
Recovery

The recovery of human ARG1 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)	97	89-102
EDTA plasma (n=4)	92	87-98

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	2.254	2.154	2.204	2.063
50	1.612	1.512	1.562	1.421
25	1.031	1.011	1.021	0.880
12.5	0.546	0.536	0.541	0.400
6.25	0.338	0.328	0.333	0.192
3.12	0.267	0.257	0.262	0.121
1.56	0.199	0.198	0.199	0.058
0	0.142	0.140	0.141	?

Msds

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