



Human Arginase 2(ARG2) ELISA Kit

Product Code	CSB-E14913h
Protein Biological Process 2	Amino-acid biosynthesis and metabolism
Abbreviation	ARG2
Protein Biological Process 1	Biosynthesis/Metabolism
Target Name	arginase, type II
Uniprot No.	P78540
Alias	L-arginine amidinohydrolase L-arginine ureahydrolase arginase 2 kidney arginase nonhepatic arginase
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Arginine metabolism
Sample Types	serum, plasma, cell culture supernates, urine, cerebrospinal fluid (CSF)
Detection Range	0.47 mU/mL-30 mU/mL
Sensitivity	0.12 mU/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	ARG2
Tag Info	quantitative
Protein Description	Sandwich

Description

This Human ARG2 ELISA Kit was designed for the quantitative measurement of Human ARG2 protein in serum, plasma, cell culture supernates, urine, cerebrospinal fluid (CSF). It is a Sandwich ELISA kit, its detection range is 0.47 mU/mL-30 mU/mL and the sensitivity is 0.12 mU/mL.

Target Details

Arginase catalyzes the hydrolysis of arginine to ornithine and urea. At least two isoforms of mammalian arginase exists (types I and II) which differ in their tissue distribution, subcellular localization, immunologic crossreactivity and physiologic function. The type II isoform encoded by this gene, is located in the



mitochondria and expressed in extra-hepatic tissues, especially kidney. The physiologic role of this isoform is poorly understood; it is thought to play a role in nitric oxide and polyamine metabolism. Transcript variants of the type II gene resulting from the use of alternative polyadenylation sites have been described.

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 ARG2 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 %	87
	Range %	83-91
1:2	Average %	104
	Range %	101-107
1:4	Average %	96
	Range %	92-99
1:8	Average %	85
	Range %	82-89

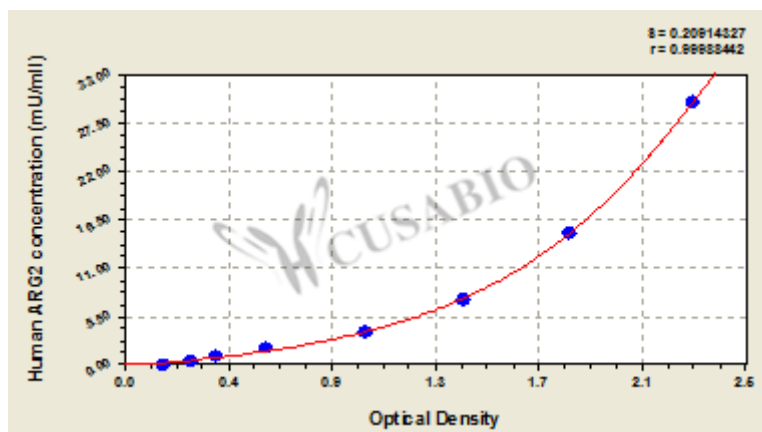
Recovery

The recovery of human ARG2 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)	94	91-98
EDTA plasma (n=4)	90	86-97

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



mU/ml OD1 OD2 Average Corrected

30	2.327	2.298	2.313	2.146
15	1.820	1.801	1.811	1.644
7.5	1.393	1.378	1.386	1.219
3.75	0.979	0.998	0.989	0.822
1.87	0.564	0.610	0.587	0.420
0.94	0.396	0.376	0.386	0.219
0.47	0.273	0.295	0.284	0.117
0	0.166	0.168	0.167	

Msds

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