



Human Argininosuccinate synthase(ASS1) ELISA kit

Product Code	CSB-EL002234HU
Protein Biological Process 2	Amino-acid biosynthesis and metabolism
Abbreviation	ASS1
Protein Biological Process 1	Biosynthesis/Metabolism
Target Name	argininosuccinate synthetase 1
Uniprot No.	P00966
Alias	RP11-618A20.2, ASS, CTLN1, OTTHUMP00000022363 OTTHUMP00000022364 citrulline-aspartate ligase
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Amino-acid biosynthesis
Sample Types	serum, plasma, tissue homogenates
Detection Range	7.8 pg/mL-500 pg/mL
Sensitivity	1.95 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	ASS1
Tag Info	quantitative
Protein Description	Sandwich
Description	This Human ASS1 ELISA Kit was designed for the quantitative measurement of Human ASS1 protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 7.8 pg/mL-500 pg/mL and the sensitivity is 1.95 pg/mL.
Target Details	This protein catalyzes the penultimate step of the arginine biosynthetic pathway. There are approximately 10 to 14 copies of this gene including the pseudogenes



scattered across the human genome, among which the one located on chromosome 9 appears to be the only functional gene for argininosuccinate synthetase. Mutations in the chromosome 9 copy of ASS cause citrullinemia. Two transcript variants encoding the same protein have been found for this gene.

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 ASS1 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 %	86-97
1:2	Average %	97
	Range %	92-105
1:4	Average %	85
	Range %	81-88
1:8	Average %	89
	Range %	83-94

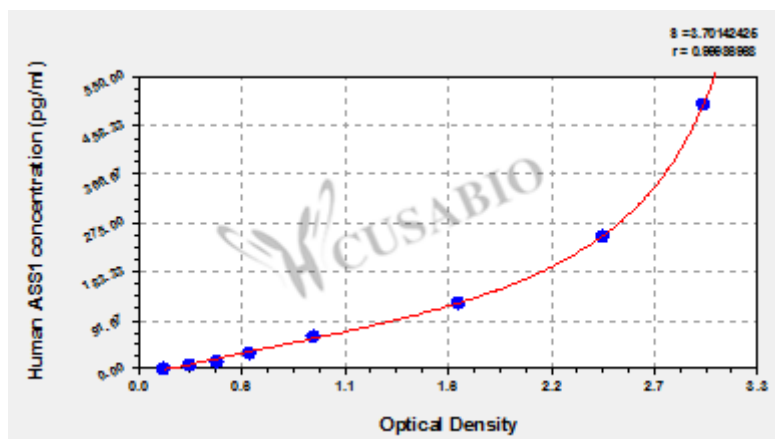
Recovery

The recovery of human ASS1 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)	91	87-95
EDTA plasma (n=4)	99	95-104

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
500	2.912	3.021	2.967	2.831
250	2.380	2.500	2.440	2.304
125	1.689	1.675	1.682	1.546
62.5	0.964	0.889	0.927	0.791
31.2	0.581	0.603	0.592	0.456
15.6	0.428	0.412	0.420	0.284
7.8	0.276	0.278	0.277	0.141
0	0.136	0.135	0.136	

Msds

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