Mouse Phenylalanine-4-hydroxylase(PAH) ELISA kit

Product Code	CSB-EL017396MO
Protein Biological Process 2	Amino-acid biosynthesis and metabolism
Abbreviation	PAH
Protein Biological Process 1	Biosynthesis/Metabolism
Target Name	phenylalanine hydroxylase
Uniprot No.	P16331
Alias	PH, PKU, PKU1
Product Type	ELISA Kit
Immunogen Species	Mus musculus (Mouse)
Protein Biological Process 3	Phenylalanine catabolism
Sample Types	serum, plasma, tissue homogenates, cell lysates
Detection Range	23.5 pg/mL-1500 pg/mL
Sensitivity	5.8 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	Pah
Tag Info	quantitative
Protein Description	Sandwich
Description	This Mouse PAH ELISA Kit was designed for the quantitative measurement of Mouse PAH protein in serum, plasma, tissue homogenates, cell lysates. It is a Sandwich ELISA kit, its detection range is 23.5 pg/mL-1500 pg/mL and the sensitivity is 5.8 pg/mL.
Target Details	PAH encodes the enzyme phenylalanine hydroxylase that is the rate-limiting step in phenylalanine catabolism. Deficiency of this enzyme activity results in the autosomal recessive disorder phenylketonuria.

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 PAH 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 %	104
	Range %	101-109
1:2	Average %	95
	Range %	91-99
1:4	Average %	86
	Range %	83-89
1:8	Average %	92
	Range %	87-96

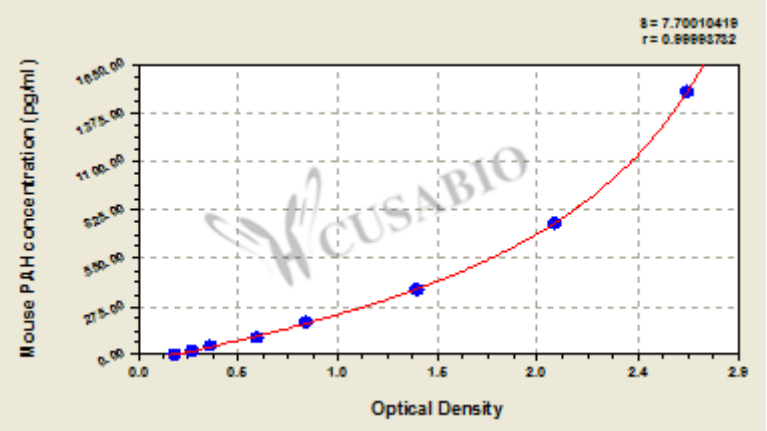
Recovery

The recovery of mouse PAH 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)	86	83-89
EDTA plasma (n=4)	89	85-96

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	2.646	2.701	2.674	2.481
750	2.063	2.000	2.032	1.839
375	1.324	1.405	1.365	1.172
187.5	0.826	0.834	0.830	0.637
94	0.593	0.587	0.590	0.397
47	0.362	0.371	0.367	0.174
23.5	0.278	0.284	0.281	0.088
0	0.192	0.194	0.193	?

Msds

{"0":{"fileurl":"https://www.cusabio.com/uploadfile/msds/MSDS CSB-EL017396MO.pdf","filename":"MSDS"}}