Mouse Cytochrome P450 2E1(CYP2E1) ELISA kit

Product Code	CSB-EL006425MO
Abbreviation	CYP2E1
Target Name	cytochrome P450, family 2, subfamily E, polypeptide 1
Uniprot No.	Q05421
Alias	CPE1, CYP2E, P450-J, P450C2E, cytochrome P450 2E1|cytochrome P450, subfamily IIE (ethanol-inducible), polypeptide 1|flavoprotein-linked monooxygenase|microsomal monooxygenase|xenobiotic monooxygenas
Product Type	ELISA Kit
Immunogen Species	Mus musculus (Mouse)
Sample Types	serum, plasma, tissue homogenates, cell lysates
Detection Range	39 pg/mL-2500 pg/mL
Sensitivity	9.75 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	Cardiovascular
Gene Names	Cyp2e1
Tag Info	quantitative
Protein Description	Sandwich
Description	This Mouse CYP2E1 ELISA Kit was designed for the quantitative measurement of Mouse CYP2E1 protein in serum, plasma, tissue homogenates, cell lysates. It is a Sandwich ELISA kit, its detection range is 39 pg/mL-2500 pg/mL and the sensitivity is 9.75 pg/mL.
Target Details	This gene encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. This protein localizes to the endoplasmic reticulum and is induced by ethanol, the diabetic state, and starvation. The enzyme metabolizes both endogenous substrates, such as ethanol, acetone, and acetal, as well as exogenous substrates including benzene, carbon tetrachloride, ethylene glycol, and nitrosamines which are premutagens found in cigarette smoke. Due to its many substrates, this enzyme may be involved in such varied processes as gluconeogenesis, hepatic cirrhosis, diabetes, and cancer.

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 CYP2E1 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 %	84
	Range %	80-92
1:2	Average %	96
	Range %	92-100
1:4	Average %	91
	Range %	85-95
1:8	Average %	104
	Range %	100-113

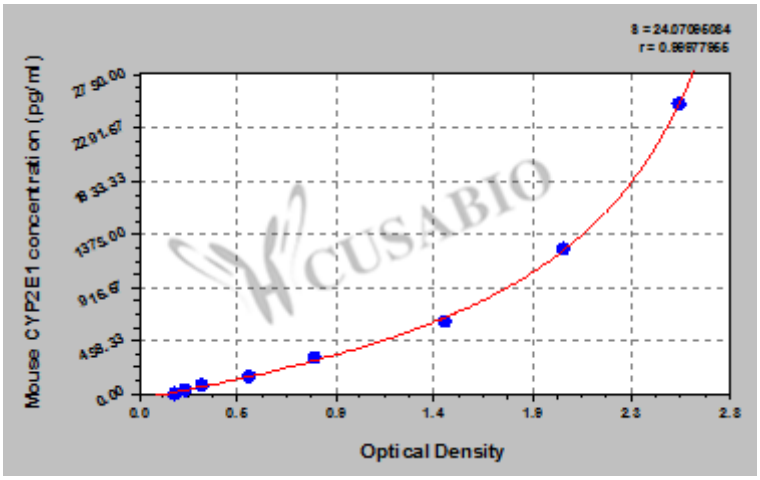
Recovery

The recovery of mouse CYP2E1 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)	95	89-100
EDTA plasma (n=4)	92	88-96

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
2500	2.482	2.658	2.570	2.384
1250	1.968	2.076	2.022	1.836
625	1.418	1.503	1.461	1.275
312	0.833	0.857	0.845	0.659
156	0.555	0.521	0.538	0.352
78	0.315	0.321	0.318	0.132
39	0.235	0.244	0.240	0.054
0	0.183	0.188	0.186	?

Msds

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