



Mouse Ectonucleotide pyrophosphatase/phosphodiesterase family member 1(ENPP1) ELISA kit

Product Code	CSB-EL007679MO
Abbreviation	ENPP1
Protein Biological Process 1	Biosynthesis/Metabolism
Target Name	ectonucleotide pyrophosphatase/phosphodiesterase 1
Uniprot No.	P06802
Alias	M6S1, NPP1, NPPS, PC-1, PCA1, PDNP1, Ly-41 antigen alkaline phosphodiesterase 1 membrane component, chromosome 6, surface marker 1 phosphodiesterase I/nucleotide pyrophosphatase 1 plasma-cell membra
Product Type	ELISA Kit
Immunogen Species	Mus musculus (Mouse)
Protein Biological Process 3	Biomineralization
Sample Types	serum, plasma, tissue homogenates
Detection Range	0.312 ng/mL-20 ng/mL
Sensitivity	0.078 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	Enpp1
Tag Info	quantitative
Protein Description	Sandwich
Description	This Mouse ENPP1 ELISA Kit was designed for the quantitative measurement of Mouse ENPP1 protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 0.312 ng/mL-20 ng/mL and the sensitivity is 0.078 ng/mL.
Target Details	This gene is a member of the ecto-nucleotide



pyrophosphatase/phosphodiesterase (ENPP) family. The encoded protein is a type II transmembrane glycoprotein comprising two identical disulfide-bonded subunits. This protein has broad specificity and cleaves a variety of substrates, including phosphodiester bonds of nucleotides and nucleotide sugars and pyrophosphate bonds of nucleotides and nucleotide sugars. This protein may function to hydrolyze nucleoside 5 triphosphates to their corresponding monophosphates and may also hydrolyze diadenosine polyphosphates. Mutations in this gene have been associated with idiopathic infantile arterial calcification, ossification of the posterior longitudinal ligament of the spine (OPLL), and insulin resistance.

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 ENPP1 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)
1:5	Average %	93
	Range %	89-97
1:10	Average %	90
	Range %	82-99
1:20	Average %	95
	Range %	87-101
1:40	Average %	95
	Range %	85-104

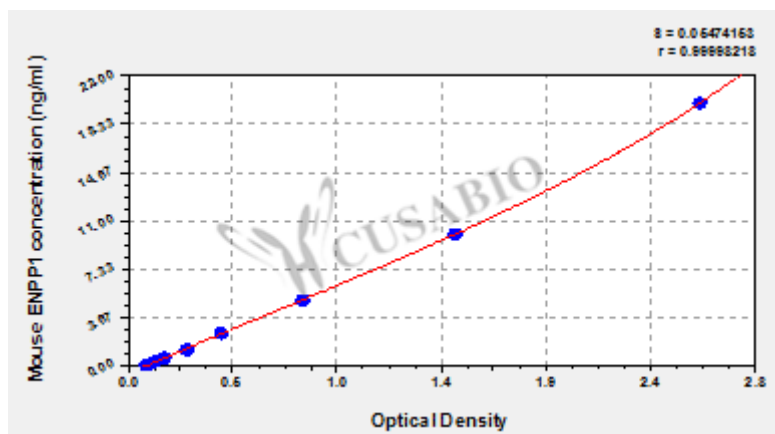
Recovery

The recovery of mouse ENPP1 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	88-99
EDTA plasma (n=4)	95	90-100

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
20	2.591	2.575	2.583	2.489
10	1.465	1.492	1.479	1.385
5	0.786	0.802	0.794	0.700
2.5	0.424	0.438	0.431	0.337
1.25	0.272	0.274	0.273	0.179
0.625	0.168	0.172	0.170	0.076
0.312	0.127	0.129	0.128	0.034
0	0.092	0.095	0.094	?

Msds

```
{"0":{"fileurl":"https://www.cusabio.com/uploadfile/msds/MSDS CSB-EL007679MO.pdf","filename":"MSDS"}}
```