





Mouse tissue inhibitors of metalloproteinase 1,TIMP-1 ELISA Kit

Product Code	CSB-E08004m
Abbreviation	TIMP1
Protein Biological Process 1	Cardiovascular
Target Name	TIMP metallopeptidase inhibitor 1
Uniprot No.	P12032
Alias	RP1-230G1.3, CLGI, EPA, EPO, FLJ90373, HCI, TIMP, erythroid potentiating activity fibroblast collagenase inhibitor tissue inhibitor of metalloproteinase 1
Product Type	ELISA Kit
Immunogen Species	Mus musculus (Mouse)
Protein Biological Process 3	Erythrocyte maturation
Sample Types	serum, plasma, cell culture supernates
Detection Range	0.156 ng/mL-10 ng/mL
Sensitivity	0.110 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	Cardiovascular
Gene Names	Timp1
Tag Info	quantitative
Protein Description	Sandwich
Description	This Mouse TIMP1 ELISA Kit was designed for the quantitative measurement of Mouse TIMP1 protein in serum, plasma, cell culture supernates. It is a Sandwich ELISA kit, its detection range is 0.156 ng/mL-10 ng/mL and the sensitivity is 0.110 ng/mL.
Target Details	This gene belongs to the TIMP gene family. The proteins encoded by this gene family are natural inhibitors of the matrix metalloproteinases (MMPs), a group of peptidases involved in degradation of the extracellular matrix. In addition to its inhibitory role against most of the known MMPs, the encoded protein is able to





promote cell proliferation in a wide range of cell types, and may also have an anti-apoptotic function. Transcription of this gene is highly inducible in response to many cytokines and hormones. In addition, the expression from some but not all inactive X chromosomes suggests that this gene inactivation is polymorphic in human females. This gene is located within intron 6 of the synapsin I gene and is transcribed in the opposite direction.

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.

₽ ³	Intra-Assay Precision₽			Inter-Assay Precision₽		
Sample₽	1€	2₽	3₽	44	2₽	3₽
n₽	20₽	20₽	20₽	20₽	20₽	20₽
Mean(ng/ml)+	1.265	1.234₽	1.265₽	1.244₽	1.268₽	1.246∉
SD₽	0.018₽	0.018₽	0.024₽	0.038₽	0.039₽	0.040
ÇV(%)+²	3.628₽	3.703₽	4.838₽	7.769₽	7.843₽	8.166∉

Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of mouse TIMP-1in 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 %₽	89₽	
	Range %₽	82-100₽	
4.0.3	Average %₽	91₽	
1:2₽	Range %₽	85-102₽	
4.4.1	Average %₽	93₽	
1:4€	Range %₽	82-99₽	
1:8₽	Average %₽	4 0 97₽	
1.8€	Range %₽	89-105₽	
ą.	- 111 -15	X P	

ę.	Sample	Cell culture Supernates(n=4)₽	
1:1₽	Average %→	884	
	Range %₽	80-95₽	
1:2₽	Average %₽	92₽	
	Range %₽	88-99₽	
1:4₽	Average %₽	95₽	
	Range %₽	89-105₽	
1:8₽	Average %₽	97₽	
	Range %₽	90-110₽	

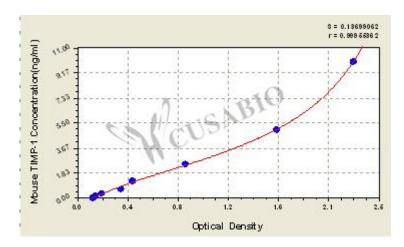
Typical

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₽
0₽	0.136₽	0.135₽	0.136₽	دي
0.156₽	0.157₽	0.154₽	0.156₽	0.020₽
0.313₽	0.22€	0.203₽	0.2124	0.076₽
0.625₽	0.369₽	0.359₽	0.364₽	0.228₽
1.25₽	0.475	0.448₽	0.462₽	0.326₽
2.5₽	0.863₽	0.911	0.887₽	0.751₽
5₽	1.659₽	1.607₽	1.633.	1.497₽
10₽	2.288₽	2.22₽	2.254₽	2.118₽

Msds

{"0":{"fileurl":"https://www.cusabio.com/uploadfile/msds/MSDS CSB-E08004m.pdf","filename":"MSDS"}}