



Rat matrix metalloproteinase 10,MMP-10 ELISA kit

Product Code	CSB-E07414r
Abbreviation	MMP10
Protein Biological Process 1	Developmental Protein
Target Name	matrix metalloproteinase 10 (stromelysin 2)
Uniprot No.	P07152
Alias	SL-2, STMY2, matrix metalloprotease 10 matrix metalloproteinase 10 matrix metalloproteinase 10 (stromelysin 2) stromelysin 2 transin 2
Product Type	ELISA Kit
Immunogen Species	Rattus norvegicus (Rat)
Protein Biological Process 3	Collagen degradation
Sample Types	serum, plasma, tissue homogenates
Detection Range	80 pg/mL-2000 pg/mL
Sensitivity	50 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	Cancer
Gene Names	Mmp10
Tag Info	quantitative
Protein Description	Competitive
Description	This Rat MMP10 ELISA Kit was designed for the quantitative measurement of Rat MMP10 protein in serum, plasma, tissue homogenates. It is a Competitive ELISA kit, its detection range is 80 pg/mL-2000 pg/mL and the sensitivity is 50 pg/mL.
Target Details	Proteins of the matrix metalloproteinase (MMP) family are involved in the breakdown of extracellular matrix in normal physiological processes, such as embryonic development, reproduction, and tissue remodeling, as well as in disease processes, such as arthritis and metastasis. Most MMP s are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. The enzyme encoded by this gene degrades proteoglycans and fibronectin. The gene is part of a cluster of MMP genes which localize to



chromosome 11q22.3.

Product Precision

Intra-assay Precision (Precision within an assay): CV%<15%

Three samples of known concentration were tested twenty times on one plate to assess.

Inter-assay Precision (Precision between assays): CV%<15%

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 rat MMP-10 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 %	91
	Range %	85-99
1:2	Average %	92
	Range %	90-103
1:4	Average %	95
	Range %	87-105
1:8	Average %	95
	Range %	87-99

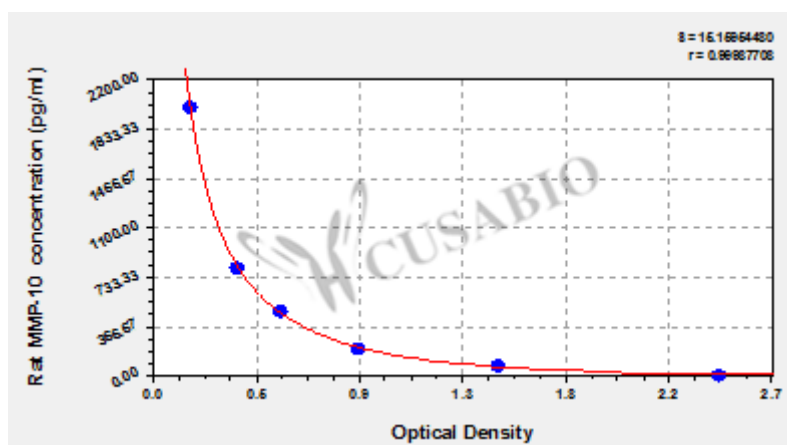
Recovery

The recovery of rat MMP-10 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)	96	88-100
EDTA plasma (n=4)	95	89-102

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
2000	0.172	0.175	0.174
800	0.376	0.379	0.378
480	0.554	0.562	0.558
200	0.882	0.897	0.890
80	1.493	1.475	1.484
0	2.404	2.452	2.428