



Rat matrix metalloproteinase 7,MMP-7 ELISA kit

Product Code	CSB-E07408r
Abbreviation	MMP7
Protein Biological Process 1	Developmental Protein
Target Name	matrix metalloproteinase 7 (matrilysin, uterine)
Uniprot No.	P50280
Alias	MMP-7, MPST1, PUMP-1, matrin matrix metalloproteinase 7 matrix metalloproteinase 7 (matrilysin, uterine) uterine matrilysin
Product Type	ELISA Kit
Immunogen Species	Rattus norvegicus (Rat)
Protein Biological Process 3	Collagen degradation
Sample Types	serum, plasma, tissue homogenates
Detection Range	15.6 pg/mL-1000 pg/mL
Sensitivity	3.9 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	Mmp7
Tag Info	quantitative
Protein Description	Sandwich
Description	This Rat MMP7 ELISA Kit was designed for the quantitative measurement of Rat MMP7 protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 15.6 pg/mL-1000 pg/mL and the sensitivity is 3.9 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, fibronectin, elastin and casein and differs from most MMP family members in



that it lacks a conserved C-terminal protein domain. The enzyme is involved in wound healing, and studies in mice suggest that it regulates the activity of defensins in intestinal mucosa. 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%<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 rat MMP-7 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 %	93
	Range %	88-98
1:2	Average %	84
	Range %	81-88
1:4	Average %	90
	Range %	85-94
1:8	Average %	97
	Range %	92-102

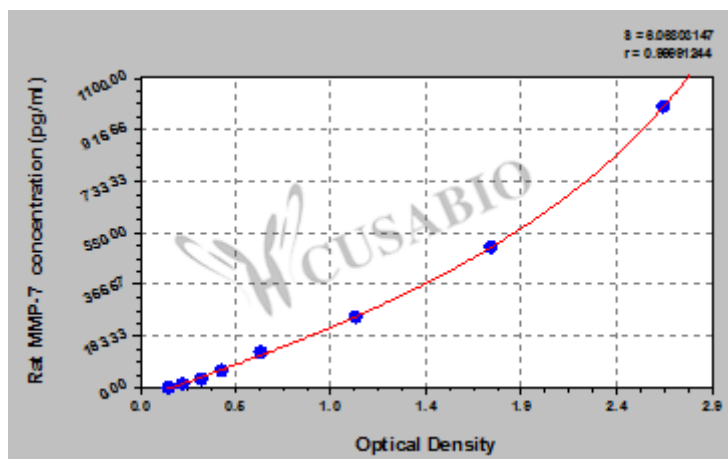
Recovery

The recovery of rat MMP-7 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	90-100
EDTA plasma (n=4)	93	87-98

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	
1000	2.612	2.637	2.625	2.470
500	1.792	1.736	1.764	1.609
250	1.101	1.074	1.088	0.933
125	0.603	0.634	0.619	0.464
62.5	0.431	0.414	0.423	0.268
31.25	0.333	0.309	0.321	0.166
15.6	0.232	0.219	0.226	0.071
0	0.156	0.153	0.155	?

Msds

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