



# Mouse matrix metallopeptidase 7 (matrilysin, uterine) (MMP7) ELISA kit

<b>Product Code</b>	CSB-E07409m
<b>Abbreviation</b>	MMP7
<b>Protein Biological Process 1</b>	Developmental Protein
<b>Target Name</b>	matrix metallopeptidase 7 (matrilysin, uterine)
<b>Uniprot No.</b>	Q10738
<b>Alias</b>	MMP-7, MPST1, PUMP-1, matrin matrix metalloproteinase 7 matrix metalloproteinase 7 (matrilysin, uterine) uterine matrilysin
<b>Product Type</b>	ELISA Kit
<b>Immunogen Species</b>	Mus musculus (Mouse)
<b>Protein Biological Process 3</b>	Collagen degradation
<b>Sample Types</b>	serum, plasma, cell culture supernates, tissue homogenates
<b>Detection Range</b>	31.25 pg/mL-2000 pg/mL
<b>Sensitivity</b>	7.81 pg/mL
<b>Assay Time</b>	1-5h
<b>Sample Volume</b>	50-100ul
<b>Detection Wavelength</b>	450 nm
<b>Lead Time</b>	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
<b>Research Area</b>	Cancer
<b>Gene Names</b>	Mmp7
<b>Tag Info</b>	quantitative
<b>Protein Description</b>	Sandwich
<b>Description</b>	This Mouse MMP7 ELISA Kit was designed for the quantitative measurement of Mouse MMP7 protein in serum, plasma, cell culture supernates, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 31.25 pg/mL-2000 pg/mL and the sensitivity is 7.81 pg/mL .
<b>Target Details</b>	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 mouse MMP7 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 %	90-95
1:2	Average %	102
	Range %	98-104
1:4	Average %	92
	Range %	88-96
1:8	Average %	99
	Range %	95-102

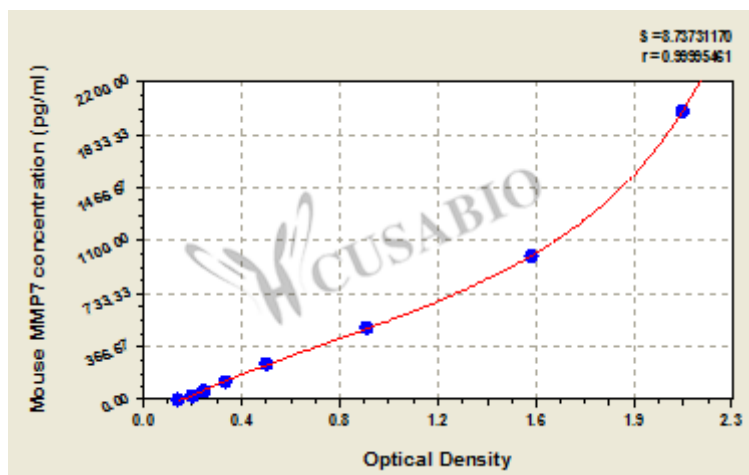
#### Recovery

The recovery of mouse MMP7 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)	94	92-96
EDTA plasma (n=4)	96	92-99

#### 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
2000	2.180	2.088	2.134	1.981
1000	1.548	1.534	1.541	1.388
500	0.882	0.899	0.891	0.738
250	0.511	0.489	0.500	0.347
125	0.338	0.331	0.335	0.182
62.5	0.256	0.248	0.252	0.099
31.25	0.202	0.211	0.207	0.054
0	0.154	0.152	0.153	?

## Msds

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