



Rat matrix metalloproteinase 3,MMP-3 ELISA kit

Product Code	CSB-E07410r
Abbreviation	MMP3
Protein Biological Process 1	Developmental Protein
Target Name	matrix metalloproteinase 3 (stromelysin 1, progelatinase)
Uniprot No.	P03957
Alias	CHDS6, MGC126102, MGC126103, MGC126104, MMP-3, SL-1, STMY, STMY1, STR1, matrix metalloproteinase 3 matrix metalloproteinase 3 (stromelysin 1, progelatinase) proteoglycanase transin-1
Product Type	ELISA Kit
Immunogen Species	Rattus norvegicus (Rat)
Protein Biological Process 3	Collagen degradation
Sample Types	serum, plasma, cell culture supernates, tissue homogenates
Detection Range	1.56 pg/mL-100 pg/mL
Sensitivity	0.39 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	Mmp3
Tag Info	quantitative
Protein Description	Sandwich

Description

This Rat MMP3 ELISA Kit was designed for the quantitative measurement of Rat MMP3 protein in serum, plasma, cell culture supernates, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 1.56 pg/mL-100 pg/mL and the sensitivity is 0.39 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. This gene encodes an enzyme which degrades fibronectin, laminin,



collagens III, IV, IX, and X, and cartilage proteoglycans. The enzyme is thought to be involved in wound repair, progression of atherosclerosis, and tumor initiation. 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-3 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)
1:100	Average %	90
	Range %	87-93
1:200	Average %	94
	Range %	90-98
1:400	Average %	95
	Range %	91-99
1:800	Average %	92
	Range %	88-96

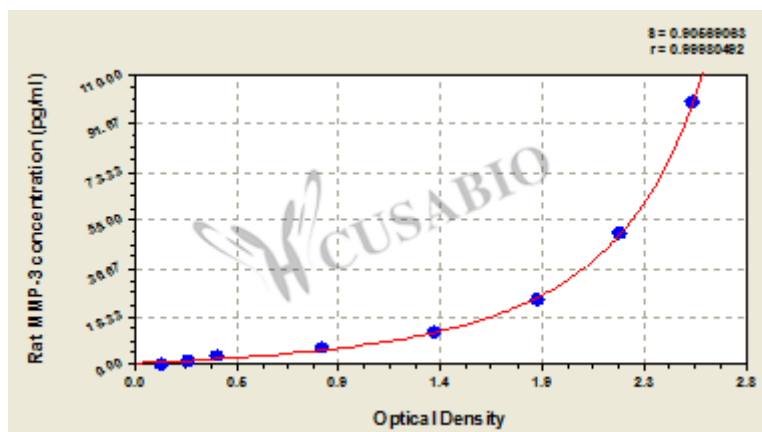
Recovery

The recovery of rat MMP-3 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)	85	81-89
EDTA plasma (n=4)	94	90-98

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
100	2.569	2.547	2.558	2.429
50	2.236	2.213	2.225	2.096
25	1.868	1.829	1.849	1.720
12.5	1.367	1.387	1.377	1.248
6.25	0.840	0.889	0.865	0.736
3.13	0.377	0.387	0.382	0.253
1.56	0.247	0.259	0.253	0.124
0	0.128	0.130	0.129	?

Msds

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