



Human Matrix metalloproteinase 10,MMP-10

ELISA kit

Product Code	CSB-E04673h
Abbreviation	MMP10
Protein Biological Process 1	Developmental Protein
Target Name	matrix metalloproteinase 10 (stromelysin 2)
Uniprot No.	P09238
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	Homo sapiens (Human)
Protein Biological Process 3	Collagen degradation
Sample Types	serum, plasma, tissue homogenates, cell lysates
Detection Range	78 pg/mL-5000 pg/mL
Sensitivity	19.5 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	Sandwich

Description

This Human MMP10 ELISA Kit was designed for the quantitative measurement of Human MMP10 protein in serum, plasma, tissue homogenates, cell lysates. It is a Sandwich ELISA kit, its detection range is 78 pg/mL-5000 pg/mL and the sensitivity is 19.5 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%<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 human 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 %	96
	Range %	90-102
1:2	Average %	107
	Range %	102-110
1:4	Average %	95
	Range %	90-101
1:8	Average %	89
	Range %	86-96

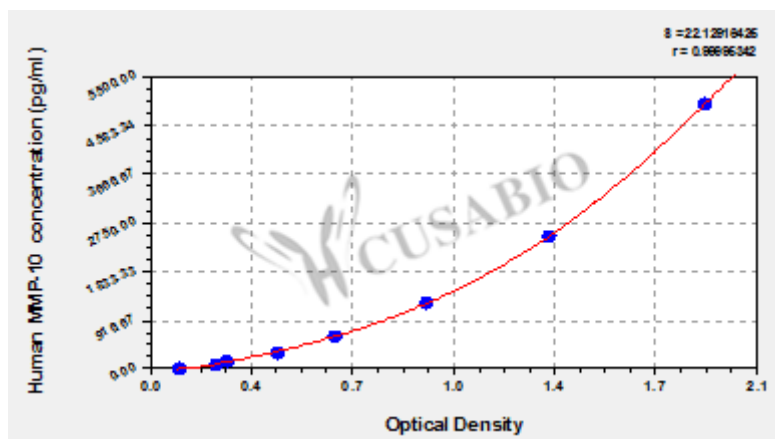
Recovery

The recovery of human 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)	103	99-105
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
5000	1.899	1.877	1.888	1.779
2500	1.354	1.366	1.360	1.251
1250	0.924	0.966	0.945	0.836
625	0.622	0.654	0.638	0.529
312	0.433	0.455	0.444	0.335
156	0.270	0.278	0.274	0.165
78	0.238	0.233	0.236	0.127
0	0.112	0.105	0.109	?

Msds

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