



Human Matrix metalloproteinase 8/Neutrophil collagenase,MMP-8 ELISA kit

Product Code	CSB-E04680h
Abbreviation	MMP8
Protein Biological Process 1	Developmental Protein
Target Name	matrix metalloproteinase 8 (neutrophil collagenase)
Uniprot No.	P22894
Alias	CLG1, HNC, PMNL-CL, PMNL collagenase matrix metalloproteinase 8 matrix metalloproteinase 8 (neutrophil collagenase)
Product Type	ELISA kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Collagen degradation
Sample Types	serum, plasma, tissue homogenates
Detection Range	39.06 pg/mL-2500 pg/mL
Sensitivity	9.77 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	MMP8
Tag Info	quantitative
Protein Description	Sandwich

Description

The product CSB-E04680h is a sandwich ELISA kit developed to measure levels of human matrix metalloproteinase 8 (MMP8) in serum, plasma, or tissue homogenates. The enzyme-substrate chromogenic reaction is also used to amplify the signal and quantify the levels of the analyte through the intensity of the colored product. The color intensity positively correlates with the amount of MMP8 bound in the initial step.

MMP8 is responsible for degrading triple-helical type I collagen and numerous extracellular matrix (ECM) and non-ECM substrates. It is released from polymorphonuclear neutrophils (PMN) when neutrophils are activated by



proinflammatory mediators or damage-associated molecular patterns (DAMPs). MMP8 thus plays an essential part in mediating inflammation. Expression of MMP8 has increased in gingivitis as well as periodontitis. And MMP8 has been shown to suppress neuroinflammation and inflammation in osteoarthritis. MMP8 plays a crucial role in stem cell migration into atherosclerotic lesions, and its activation in stem cells promotes lesion development. It also plays a prominent role in angiogenesis.

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. However, the enzyme encoded by this gene is stored in secondary granules within neutrophils and is activated by autolytic cleavage. Its function is degradation of type I, II and III collagens. The gene is part of a cluster of MMP genes which localize to chromosome 11q22.3.

Product Precision**Linearity****Recovery****Typical****Msds**

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