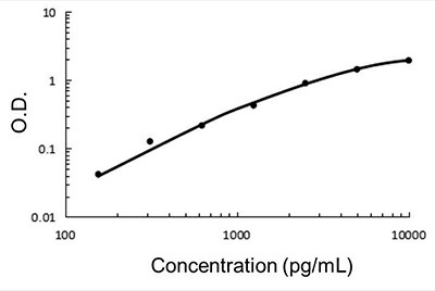
MMP3 (Human) ELISA Kit

Catalog # KA0394 Size 1 Kit

Applications



The standard curve is for the purpose of illustration only and should not be used to calculate unknowns. A standard curve should be generated each time the assay is performed.

Specification

Product Description	MMP3 (Human) ELISA Kit is a sandwich enzyme immunoassay for the quantitative measurement of human MMP3.
Suitable Sample	Cell Culture Supernatant, Plasma (heparin), Serum
Sample Volume	100 uL
Label	HRP-conjugated
Detection Method	Colorimetric
Assay Type	Quantitative
Calibration Range	156 to 10,000 pg/mL
Reactivity	Human
Regulation Status	For research use only (RUO)
Quality Control Testing	Standard curve The standard curve is for the purpose of illustration only and should not be used to calculate unknowns. A standard curve should be generated each time the assay is performed.
Storage Instruction	Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles.

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Applications

- Quantification

Gene Info — MMP3

Entrez GeneID	4314
Gene Name	MMP3
Gene Alias	CHDS6, MGC126102, MGC126103, MGC126104, MMP-3, SL-1, STMY, STMY1, STR1
Gene Description	matrix metallopeptidase 3 (stromelysin 1, progelatinase)
Omim ID	185250
Gene Ontology	Hyperlink
Gene Summary	Proteins of the matrix metalloproteinase (MMP) family are involved in the breakdown of extracellul ar matrix in normal physiological processes, such as embryonic development, reproduction, and ti ssue 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 proteinase s. This gene encodes an enzyme which degrades fibronectin, laminin, collagens III, IV, IX, and X, a nd 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. [provided by RefSeq
Other Designations	matrix metalloproteinase 3|matrix metalloproteinase 3 (stromelysin 1, progelatinase)|progelatinas e|proteoglycanase|stromelysin 1|transin-1

Publication Reference

- CCL18 promotes the invasion and migration of gastric cancer cells via ERK1/2/NF-κB signaling pathway.

  Hou X, Zhang Y, Qiao H.

  Tumour Biology 2015 Aug; 37(1):641.

  Application: Quan, Human, MGC-803 cell

- CCL20/CCR6 promotes the invasion and migration of thyroid cancer cells via NF-kappa B signaling-induced MMP-3 production.

  Zeng W, Chang H, Ma M, Li Y.

  Experimental and Molecular Pathology 2014 Aug; 97(1):184.

  Application: ELISA, Human, Supernatant collected from SW1736 cells culture medium

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- Matrix metalloproteinase-3 genotype contributes to age-related aortic stiffening through modulation of gene and protein expression.

  Medley TL, Kingwell BA, Gatzka CD, Pillay P, Cole TJ.

  Circulation Research 2003 Jun; 92(11):1254.

- The complete primary structure of human matrix metalloproteinase-3. Identity with stromelysin.

  Saus J, Quinones S, Otani Y, Nagase H, Harris ED Jr, Kurkinen M.

  The Journal of Biological Chemistry 1988 May; 263(14):6742.

Disease

- Acute Disease
- Adenocarcinoma
- Adenomatous Polyps
- Aggressive Periodontitis
- alpha 1-Antitrypsin Deficiency
- Alpha-1-antitrypsin deficiency
- Alveolar Bone Loss
- Alzheimer disease
- Amyotrophic lateral sclerosis
- Aneurysm
- Angina
- Angina Pectoris
- Aortic Aneurysm
- Aortic Diseases
- Arterial Occlusive Diseases
- Arthritis
- Astrocytoma

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- Atherosclerosis
- Bipolar Disorder
- Brain Infarction
- Brain Ischemia
- Brain Neoplasms
- Breast cancer
- Breast Neoplasms
- Calcinosis
- Carcinoma
- Cardiomyopathy
- Cardiovascular Diseases
- Carotid Artery
- Carotid Artery Diseases
- Carotid Stenosis
- Celiac Disease
- Cerebral Arterial Diseases
- Cerebral Infarction
- Cerebral Palsy
- Cerebrovascular Accident
- Cholangitis
- Chorioamnionitis
- Chronic Disease
- Chronic Periodontitis
- Cleft Lip
- Cleft Palate
- Colitis
- Colorectal Neoplasms

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- Connective Tissue Diseases
- Constriction
- Coronary Aneurysm
- Coronary Artery Disease
- Coronary Disease
- Coronary Restenosis
- Coronary Stenosis
- Coronary Vasospasm
- Crohn Disease
- Death
- Dementia
- Diabetes Complications
- Diabetes Mellitus
- Diabetic Angiopathies
- Disease Progression
- Disease Susceptibility
- Duodenal Ulcer
- Edema
- Endometrial Neoplasms
- Endometriosis
- Esophageal Neoplasms
- Exfoliation Syndrome
- Fetal Diseases
- Fetal Membranes
- Genetic Predisposition to Disease
- Gingival Overgrowth

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- Glaucoma
- Graft Occlusion
- Head and Neck Neoplasms
- Heart Failure
- Helicobacter Infections
- Hepatitis B
- Hepatitis C
- Hypercholesterolemia
- Hyperlipidemias
- Hypertension
- Hypertrophy
- Infection
- Inflammation
- Intervertebral Disk Displacement
- Intracranial Arteriosclerosis
- Intracranial Hemorrhages
- Kidney Failure
- Kidney Neoplasms
- Leukoaraiosis
- Liver Cirrhosis
- Liver Neoplasms
- Lung Neoplasms
- Lupus Erythematosus
- Lymphatic Metastasis
- Lymphoma

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- Macular Degeneration
- Malignant melanoma
- Melanoma
- Metabolic Syndrome X
- Migraine Disorders
- Mitral Valve Insufficiency
- Mitral Valve Prolapse
- Mouth Neoplasms
- Mucocutaneous Lymph Node Syndrome
- Multiple Sclerosis
- Musculoskeletal Diseases
- Myocardial Infarction
- Myopia
- Nasopharyngeal Neoplasms
- Neoplasm Invasiveness
- Neoplasms
- Obesity
- Obstetric Labor
- Occupational Diseases
- Oral Submucous Fibrosis
- Osteoporosis
- Ovarian cancer
- Ovarian Neoplasms
- Parkinson disease
- Periodontal Attachment Loss
- Periodontal Pocket

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- Periodontitis
- Peripheral Vascular Diseases
- Pre-Eclampsia
- Pregnancy Complications
- Premature Birth
- Psychiatric Status Rating Scales
- Pulmonary Disease
- Recurrence
- Renal Insufficiency
- Rheumatoid Nodule
- Schizophrenia
- Scoliosis
- Skin Diseases
- Skin Neoplasms
- Spinal Diseases
- Spondylitis
- Stomach Neoplasms
- Stomach Ulcer
- Stroke
- Subarachnoid Hemorrhage
- Syndrome
- Tendinopathy
- Thrombosis
- Urinary Bladder Neoplasms
- Urinary Incontinence
- Varicose Veins

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- Vascular Diseases
- Ventricular Dysfunction
- Werner syndrome

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