

Human MMP-3 ELISA Kit | MMP-3 elisa kit

MMP-3 Human ELISA Kit

CATALOG # AAA58901	REACTIVITY Human	APPLICATIONS ELISA
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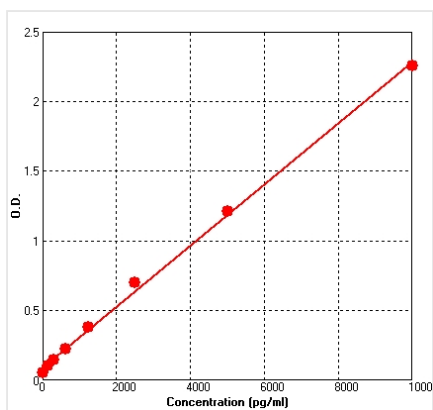
PRODUCT SYNONYMS

MMP-3; MMP-3 Human ELISA Kit; Human MMP-3; MMP-3 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Assay Type	Sandwich
Detection Range	156 pg/ml-10,000 pg/ml
Sensitivity	< 10pg/ml
Applicable Applications for MMP-3 elisa kit	ELISA
Preparation and Storage	Store at 2-8 degree C for 4 months, or at -20 degree C for 8 months.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for MMP-3 elisa kit	Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-MMP-3 polyclonal antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-MMP-3 polyclonal antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and wash with wash buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the MMP-3 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of MMP-3 can be calculated. Background: Matrix metalloproteinase-3 (MMP-3) also known as Stromelysin-1 is an enzyme that in humans is encoded by the MMP3 gene. This gene is part of a cluster of MMP genes which localize to chromosome 11q22.3. It is a secreted metalloprotease produced predominantly by connective tissue cells. Together with other metalloproteases, it can synergistically degrade the major components of the extracellular matrix. The MMP-3 enzyme degrades collagen types II, III, IV, IX, and X, proteoglycans, fibronectin, laminin, and elastin. In addition, MMP-3 can also activate other MMPs such as MMP-1, MMP-3, and MMP-9, rendering MMP-3 crucial in connective tissue remodeling.[3] The enzyme is thought to be involved in wound repair, progression of atherosclerosis, and tumor initiation.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	8176609
NCBI GeneID	281309
NCBI Official Full Name	MMP-3
NCBI Official Synonym Full Names	matrix metalloproteinase 3 (stromelysin 1, procollagenase)
NCBI Official Symbol	MMP3
NCBI Protein Information	stromelysin-1; metalloproteinase 3 receptor

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.