

Human MMP-3 ELISA Kit | MMP3 elisa kit

Human MMP-3 PicoKine ELISA Kit

CATALOG #
AAA45336

REACTIVITY
Human

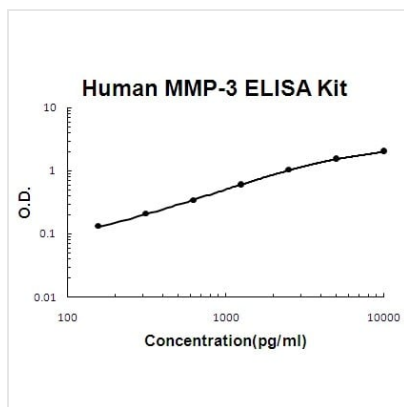
PRODUCT SYNONYMS

MMP-3; Human MMP-3 PicoKine ELISA Kit; Stromelysin-1; matrix metalloproteinase 3 (stromelysin 1; progelatinase); CHDS6; Matrix metalloproteinase 3; Matrix metalloproteinase 3 preproprotein; Matrix metalloproteinase-3; MGC126102; MGC126103; MGC126104; MMP 3; MMP3; MMP3_HUMAN; Progelatinase; Proteoglycanase; SL 1; SL-1; SL1; STMY; STMY1; STR1; Stromelisin 1; Stromelysin 1; Stromelysin 1 progelatinase; Transin 1; Transin-1; MMP3 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant human total MMP-3
Sequence Length	477
Samples	Cell culture supernates, serum and plasma (heparin)
Assay Type	Sandwich
Detection Range	156pg/ml-10,000pg/ml
Sensitivity	< 10pg/ml
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice.)

IMAGES



Standard Curve (Sample)

Human MMP-3 PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for MMP3 elisa kit	Principle of the assay: human MMP-3 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for MMP-3 has been precoated onto 96-well plates. Standards (NSO,Y18-C477) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for MMP-3 is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was 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 human MMP-3 amount of sample captured in plate. Background: Matrix metalloproteinase-3 (MMP-3) also called stromelysin or transin, is a proteoglycanase closely related to collagenase (MMP1) with a wide range of substrate specificities. The complete primary structure for human MMP-3, which has 477 residues including a 17-residue signal peptide. MMP-3 and collagenase are 54% identical in sequence, suggesting a common origin for the evolution of the two proteinases. MMP-3 and collagenase expression are coordinately modulated in synovial fibroblast cultures. MMP-3 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. It is capable of degrading proteoglycan, fibronectin, laminin, and type IV collagen, but not interstitial type I collagen. MMP-3 genotype may be an important determinant of vascular remodeling and age-related arterial stiffening, with the heterozygote having the optimal balance between matrix accumulation and deposition. The standard product used in this kit is recombinant human MMP-3, consisting of 460 amino acids with the molecular mass of 52KDa. The detected MMP-3 includes zymogen and active enzyme.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	116857
NCBI GeneID	4314
UniProt Accession #	P08254; Q3B7S0; Q6GRF8; B2R8B8
Molecular Weight	53,977 Da
NCBI Official Full Name	Stromelysin-1
NCBI Official Synonym Full Names	matrix metallopeptidase 3 (stromelysin 1, progelatinase)
NCBI Official Symbol	MMP3
NCBI Official Synonym Symbols	SL-1; STMY; STR1; CHDS6; MMP-3; STMY1
NCBI Protein Information	stromelysin-1; transin-1; proteoglycanase; matrix metalloproteinase-3; matrix metalloproteinase 3 (stromelysin 1, progelatinase)
UniProt Protein Name	Stromelysin-1
UniProt Gene Name	MMP3
UniProt Synonym Gene Names	STMY1; SL-1; MMP-3
UniProt Entry Name	MMP3_HUMAN

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.