

Human MMP-1 ELISA Kit | MMP1 elisa kit

Human MMP-1 PicoKine ELISA Kit

CATALOG #
AAA11553

REACTIVITY
Human

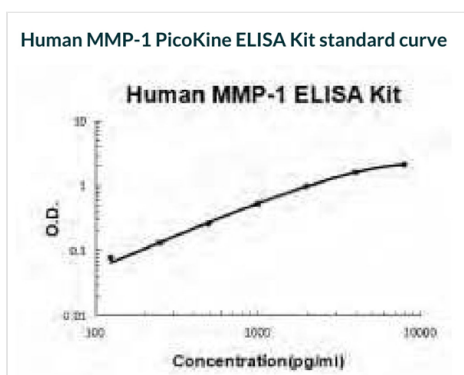
PRODUCT SYNONYMS

MMP-1; Human MMP-1 PicoKine ELISA Kit; Interstitial collagenase; matrix metalloproteinase 1 (interstitial collagenase); 27 kDa interstitial collagenase; CLG; CLGN; Fibroblast collagenase; Matrix metalloproteinase 1 (interstitial collagenase); Matrix Metalloproteinase 1; Matrix metalloproteinase-1; MMP 1; MMP1; MMP1_HUMAN; MMP1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant Human MMP1
Sequence Length	403
Samples	Cell culture supernatants, serum and plasma (heparin)
Detection Range	156 pg/ml - 10,000 pg/ml
Sensitivity	<20 pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested on one plate to assess intra-assay precision.
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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)

ADDITIONAL INFORMATION

Related Product Information for MMP1 elisa kit	Background: Matrix metalloproteinase-1(MMP-1) is also known as collagenase. Matrix metalloproteinases(MMPs) are zinc-dependent proteases that degrade extrMMP-1llular matrix proteins. The MMPs comprise a family of at least 20 proteolytic enzymes that play an essential role in tissue remodeling. Matrix metalloproteinase-1(MMP-1) plays an important role in the degradation of collagen in inflammatory diseases. MMP1(interstitial collagenase), MMP9(gelatinase B) and MMP12(macrophage elastase) are thought to be important in the development of emphysema. Smokinginduced MMP-1 might be important in the skin-ageing effects of tobacco smoking. The standard product used in this kit is human MMP-1 with the molecular mass of 51-53KDa. The detected MMP-1 includes zymogen and active enzyme. Principle of the Assay: The Picokine™ Human MMP1 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid-phase immunoassay specially designed to measure Human MMP1 with a 96-well strip plate that is pre-coated with antibody specific for MMP1. The detection antibody is a biotinylated antibody specific for MMP1. The capture antibody is monoclonal antibody from mouse and the detection antibody is polyclonal antibody from goat. The kit contains recombinant Human MMP1 with immunogen: Expression system for standard: NS0; Immunogen sequence: F20-N469. The kit is analytically validated with ready-to-use reagents. To measure Human MMP1, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbounded ABC-HRP with PBS or TBS buffer and add TMB. TMB is an HRP substrate and will be catalyzed to produce a blue color product, which changes into yellow after adding the acidic stop solution. The absorbance of the yellow product at 450nm is linearly proportional to Human MMP1 in the sample. Read the absorbance of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Human MMP1 in the sample.
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NCBI AND UNIPROT INFORMATION

NCBI GeneID	4312
UniProt Accession #	B4DN15; P03956
Molecular Weight	46,266 Da
NCBI Official Synonym Full Names	matrix metallopeptidase 1 (interstitial collagenase)
NCBI Official Symbol	MMP1
NCBI Official Synonym Symbols	CLG; CLGN
NCBI Protein Information	interstitial collagenase; fibroblast collagenase; matrix metalloprotease 1; matrix metalloproteinase 1
UniProt Protein Name	cDNA FLJ55228, highly similar to Interstitial collagenase (EC 3.4.24.7)
UniProt Entry Name	B4DN15_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.