

Human MMP-8 ELISA Kit | MMP8 elisa kit

Human MMP-8 PicoKine ELISA Kit

CATALOG #
AAA45214

REACTIVITY
Human

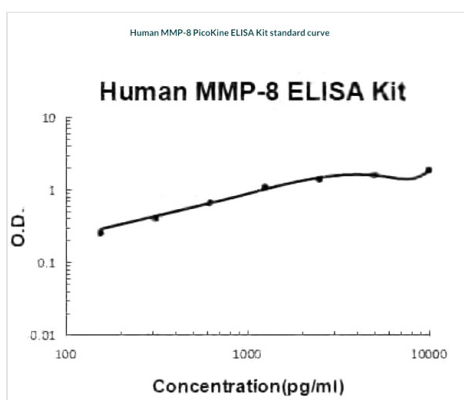
PRODUCT SYNONYMS

MMP-8; Human MMP-8 PicoKine ELISA Kit; Neutrophil collagenase; matrix metalloproteinase 8 (neutrophil collagenase); BB138268; CLG 1; CLG1; Collagenase 1; Collagenase 1 neutrophil; HNC; Matrix metalloproteinase 8; Matrix metalloproteinase 8 (neutrophil collagenase); Matrix metalloproteinase-8; MMP 8; Mmp8; MMP8_HUMAN; PMNL CL; PMNL collagenase; PMNL-CL; MMP8 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant Human MMP8
Sequence Length	467
Samples	Cell culture supernatants, serum, plasma (heparin) and saliva
Detection Range	156 pg/ml - 10,000 pg/ml
Sensitivity	<10 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
Inter-assay Precision	Inter-Assay Precision (Precision across assays): Three samples of known concentration were tested in separate assays to assess inter-assay precision.
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 MMP8 elisa kit	Background: Matrix metalloproteinase 8 (MMP8) also called neutrophil collagenase. Neutrophil collagenase, a member of the family of matrix metalloproteinases, is distinct from the collagenase of skin fibroblasts and synovial cells in substrate specificity and immunologic crossreactivity. MMP8, an enzyme that degrades fibrillar collagens imparting strength to the fetal membranes, is expressed by leukocytes and chorionic cytotrophoblast cells. The human neutrophil collagenase (HNC) cDNA clone has been sequenced and shown to encode a 467-residue protein. Neutrophil collagenase has been found to possess 57% identity with the deduced protein sequence for fibroblast collagenase with 72% chemical similarity. Certain regions of the molecule, including the putative zinc-binding region, are highly conserved. When compared with the published sequence for fibroblast collagenase, neutrophil collagenase contains four additional sites for glycosylation. The standard product used in this kit is natural, isolating from human MMP-8. The detected MMP-8 includes zymogen and active enzyme. Principle of the Assay: The Picokine™ Human MMP8 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid-phase immunoassay specially designed to measure Human MMP8 with a 96-well strip plate that is pre-coated with antibody specific for MMP8. The detection antibody is a biotinylated antibody specific for MMP8. The capture antibody is polyclonal antibody from goat and the detection antibody is polyclonal antibody from goat. The kit contains recombinant Human MMP8 with immunogen: Expression system for standard: NS0; Immunogen sequence: F21-G467. The kit is analytically validated with ready-to-use reagents. To measure Human MMP8, 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 MMP8 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 MMP8 in the sample.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	116862
NCBI GeneID	4317
UniProt Accession #	P22894; Q45F99
Molecular Weight	53,412 Da
NCBI Official Full Name	Neutrophil collagenase
NCBI Official Synonym Full Names	matrix metalloproteinase 8 (neutrophil collagenase)
NCBI Official Symbol	MMP8
NCBI Official Synonym Symbols	HNC; CLG1; MMP-8; PMNL-CL
NCBI Protein Information	neutrophil collagenase; PMNL collagenase; matrix metalloproteinase-8; matrix metalloproteinase 8 (neutrophil collagenase)
UniProt Protein Name	Neutrophil collagenase
UniProt Gene Name	MMP8
UniProt Synonym Gene Names	CLG1; MMP-8; PMNL-CL
UniProt Entry Name	MMP8_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.