

Human MMP-8 ELISA Kit | MMP8 elisa kit

Human MMP-8 Quick ELISA Kit

CATALOG #
AAA125861

REACTIVITY
Human

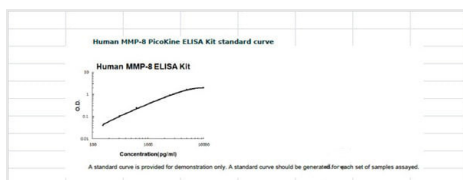
PRODUCT SYNONYMS

MMP-8; Human MMP-8 Quick ELISA Kit; MMP-8|CLG1HNC; Collagenase 2; EC 3. 4. 24; EC 3. 4. 24. 34; matrix metalloproteinase 8 (neutrophil collagenase); matrix metalloproteinase 8 (neutrophil collagenase); Matrix metalloproteinase-8; MMP8; neutrophil collagenase; PMNL collagenase; PMNL-CL; MMP8 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant Human MMP8
Samples	Cell culture supernatants, serum, plasma (heparin) and saliva
Assay Type	Sandwich
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	Principle of the Assay: The Quick Picokine™ Human MMP8 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid phase immunoassay specially designed to measure Human MMP8 in cell culture supernatants, serum, plasma (heparin) and saliva. It uses our proprietary Quick ELISA technology. Quick ELISA technology employs capture antibodies conjugated to an affinity tag that is recognized by the polyclonal antibody used to coat our Quick ELISA plates. This approach to sandwich ELISA allows the formation of the antibody-analyte sandwich complex in a single step, significantly reducing assay time. The kit contains recombinant Human MMP8 with immunogen: Expression system for standard: NS0; Immunogen sequence: F21-G467. To measure Human MMP8, add standards and samples to the wells, then add antibody cocktail. Wash the wells 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 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. Background/Introduction: 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.
Product Categories/Family for MMP8 elisa kit	ELISA kits

NCBI AND UNIPROT INFORMATION

NCBI GI #	4505221
NCBI GeneID	4317
NCBI Accession #	NP_002415.1
NCBI GenBank Nucleotide #	NM_002424.2
UniProt Accession #	P22894; Q45F99
Molecular Weight	53,412 Da
NCBI Official Full Name	neutrophil collagenase preproprotein
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.

