

Rat MMP8 ELISA Kit | MMP8 elisa kit

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CATALOG #
AAA263166

REACTIVITY
Rat

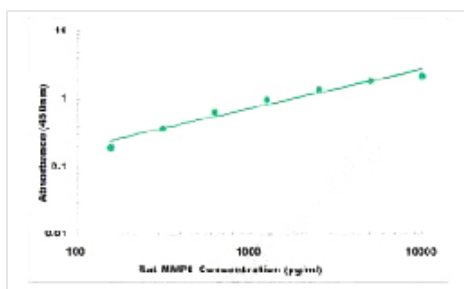
PRODUCT SYNONYMS

MMP8; Rat MMP8 ELISA Kit; CLG1; Neutrophil collagenase; Matrix metalloproteinase-8; MMP-8; PMNL collagenase; PMNL-CL; MMP8 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	The Rat MMP8 ELISA Kit allows for the detection and quantification of endogenous levels of natural and/or recombinant Rat MMP8 proteins within the range of 156 pg/ml - 10000 pg/ml.
Sequence Length	466
Samples	Cell Culture Supernates, Serum, Plasma
Sensitivity	<10 pg/ml
Preparation and Storage	Shipped and store at 4 degree C for 6 months, store at -20 degree C for one year. Avoid freeze/thaw cycles.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for MMP8 elisa kit	Principle of the Assay: The Rat MMP8 ELISA (Enzyme-Linked Immunosorbent Assay) kit is an in vitro enzyme-linked immunosorbent assay for the quantitative measurement of Rat MMP8 in Cell Culture Supernates, Serum, Plasma. This assay employs an antibody specific for Rat MMP8 coated on a 96-well plate. Standards and samples are pipetted into the wells and MMP8 present in a sample is bound to the wells by the immobilized antibody. The wells are washed and biotinylated anti-Rat MMP8 antibody is added. After washing away unbound biotinylated antibody, HRP-conjugated streptavidin is pipetted to the wells. The wells are again washed, a TMB substrate solution is added to the wells and color develops in proportion to the amount of MMP8 bound. The Stop Solution changes the color from blue to yellow, and the intensity of the color is measured at 450 nm. 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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	11560008
NCBI GeneID	63849
NCBI Accession #	NP_071557.1
NCBI GenBank Nucleotide #	NM_022221.1
UniProt Accession #	O88766
Molecular Weight	53,277 Da
NCBI Official Full Name	neutrophil collagenase
NCBI Official Synonym Full Names	matrix metalloproteinase 8
NCBI Official Symbol	Mmp8
NCBI Protein Information	neutrophil collagenase
UniProt Protein Name	Neutrophil collagenase
UniProt Gene Name	Mmp8
UniProt Synonym Gene Names	MMP-8
UniProt Entry Name	MMP8_RAT

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.