

Rat MMP-8 PicoKine ELISA Kit | Mmp8 elisa kit

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CATALOG #
AAA46209

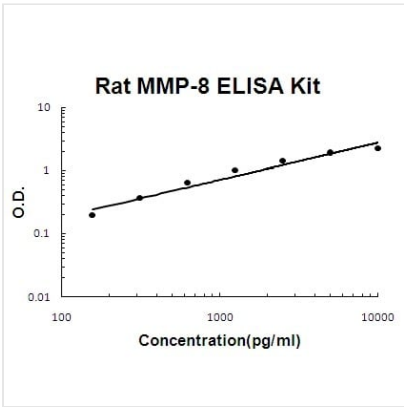
REACTIVITY
Rat

PRODUCT SYNONYMS

MMP-8 PicoKine; Rat MMP-8 PicoKine ELISA Kit; 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; MMP-8; Mmp8; MMP8_HUMAN; PMNL CL; PMNL collagenase; PMNL-CL; matrix metalloproteinase 8 (neutrophil collagenase); Mmp8 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	Natural and recombinant rat MMP-8
Sequence Length	466
Assay Range	156pg/ml-10,000pg/ml
Sensitivity	<10pg/ml
Sample	For quantitative detection of rat MMP-8 in cell culture supernates, serum and plasma(heparin).
Immunogen	NSO,L21-P466
Assay Procedure Step 1	Aliquot 0.1ml per well of the 10,000pg/ml, 5000pg/ml, 2500pg/ml, 1250pg/ml, 625pg/ml, 312pg/ml, 156pg/ml rat MMP-8 standard solutions into the precoated 96-well plate. Add 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml of each properly diluted sample of rat cell culture supernates, serum or plasma(heparin) to each empty well. It is recommended that each rat MMP-8 standard solution and each sample be measured in duplicate.
Intra-Assay Precision	Inter-Assay Precision Sample 1 2 3 1 2 3 n 16 16 16 24 24 24 Mean(pg/ml) 486 1780 6826 561 2175 7203 Standard deviation 19.93 112.14 354.95 27.49 158.78 468.2 CV(%) 4.1 6.3 5.2 4.9 7.3 6.5
Sample Data	Concentration(pg/ml) 0 156 312 625 1250 2500 5000 10000 O.D. 0.006 0.192 0.366 0.635 0.985 1.400 1.892 2.193
Anticoagulant	Heparin
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles.



Standard Curve (Sample)
Rat MMP-8 PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for Mmp8 elisa kit	Principle of the assay: Rat MMP-8 ELISA Kit is based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for MMP-8 has been precoated onto 96-well plates. Standards(NSO, L21-P466) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for MMP-8 is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex is added and unbound conjugates are washed away with PBS or TBS buffer. HRP substrate TMB are used to visualize HRP enzymatic reaction. TMB is 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 rat MMP-8 amount of sample captured in plate. 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.

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Online datasheet: <https://www.aaabiotech.com/rat-elisa-kits/mmp-8-picokine/46209>