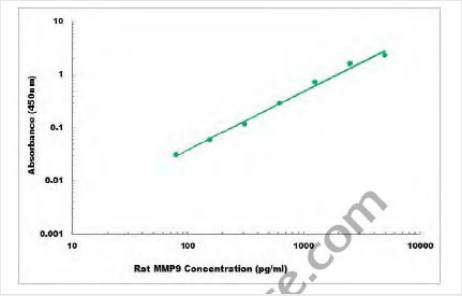
MMP9 ELISA Kit for Rat

PRODUCT OVERVIEW

Product Name	MMP9, ELISA Kit
Full Product Name	Rat MMP9 ELISA Kit
Product Gene Name	MMP9 elisa kit
Product Synonym Names	CLG4B; Matrix metalloproteinase-9; MMP-9; 92 kDa gelatinase; 92 kDa type IV collagenase; Gelatinase B; GELB
Species Reactivity	Rat
Samples	Cell culture supernates, serum, plasma
Sensitivity	< 40 pg/ml
Specificity	The Rat MMP9 ELISA Kit allows for the detection and quantification of endogenous levels of natural and/or recombinant Rat MMP9 proteins within the range of 78 pg/ml - 5000 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.
Molecular Weight	78,611 Da
3D Structure	ModBase 3D Structure for P50282
Related Product Information for MMP9 elisa kit	Principle of the Assay: The MyBioSource' Rat MMP9 ELISA (Enzyme-Linked Immunosorbent Assay) kit is an in vitro enzyme-linked immunosorbent assay for the quantitative measurement of Rat MMP9 in Cell Culture Supernates, Serum, Plasma. This assay employs an antibody specific for Rat MMP9 coated on a 96-well plate. Standards and samples are pipetted into the wells and MMP9 present in a sample is bound to the wells by the immobilized antibody. The wells are washed and biotinylated anti-Rat MMP9 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 MMP9 bound. The Stop Solution changes the color from blue to yellow, and the intensity of the color is measured at 450 nm. Background/Introduction: Matrix metallopeptidase 9 (MMP-9) is also known as 92 kDa type IV collagenase, 92 kDa gelatinase or gelatinase B (GELB). The 72- and 92-kDa type IV collagenases are members of a group of secreted zinc metalloproteases. The matrix metalloproteinases (MMPs) are able to degrade the extracellular matrix and allow angiogenesis and tumor invasion. MMP-9 is predominantly expressed in neutrophils, macrophages, and mast cells, rather than in oncogene-positive neoplastic cells. The polymorphism of MMP-9 acts as a genetic factor for the development of smoking-induced pulmonary emphysema.
Other Notes	Small volumes of MMP9 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for MMP9 purchase	MBS8248484 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the MMP9, ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing MMP9. The ELISA analytical biochemical technique of the MBS8248484 kit is based on MMP9 antibody-MMP9 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect MMP9 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, MMP9. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of MMP9 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MMP9. It may not necessarily be applicable to this product.

NCBI GI #	13591993
NCBI GeneID	81687
NCBI Accession #	NP_112317.1
UniProt Primary Accession #	P50282
UniProt Related Accession #	P50282
GenBank Nucleotide #	NM_031055.1
NCBI Official Full Name	matrix metalloproteinase-9
NCBI Official Synonym Full Names	matrix metallopeptidase 9
NCBI Official Symbol	Mmp9
UniProt Protein Name	Matrix metalloproteinase-9
UniProt Synonym Protein Names	92 kDa gelatinase; 92 kDa type IV collagenase; Gelatinase B; GELB
Protein Family	Matrix metalloproteinase
UniProt Gene Name	Mmp9
UniProt Synonym Gene Names	MMP-9; GELB
UniProt Entry Name	MMP9_RAT
NCBI Protein Information	matrix metalloproteinase-9
NCBI Summary for MMP9	metalloproteinase involved in extracellular matrix remodeling and bone resorption [RGD, Feb 2006]
UniProt Comments for MMP9	Could play a role in bone osteoclastic resorption. Cleaves type IV and type V collagen into large C-terminal three quarter fragments and shorter N-terminal one quarter fragments ().
Research Articles on MMP9	**1.** Atorvastatin reduced MMP9 levels in aging rat kidneys.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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