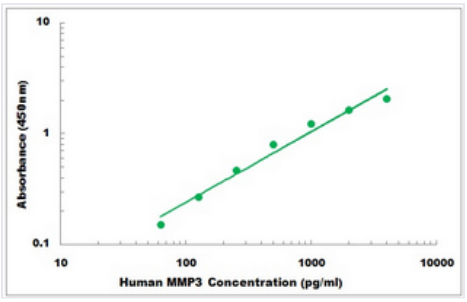
MMP3 ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	MMP3, ELISA Kit
Full Product Name	Human MMP3 ELISA Kit
Product Gene Name	MMP3 elisa kit
Product Synonym Names	STMY1; Stromelysin-1; SL-1; Matrix metalloproteinase-3; MMP-3; Transin-1
Species Reactivity	Human
Assay Type	Sandwich
Samples	Cell Culture Supernatants, Serum, Plasma, Tissue Homogenates
Detection Range	62.5 pg/ml - 4000 pg/ml
Sensitivity	15 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	53,977 Da
OMIM	gene 614466
3D Structure	ModBase 3D Structure for P08254
Detection Method	Colorimetric
Applications Tested/Suitable for MMP3 elisa kit	Sandwich ELISA (SE)
Related Product Information for MMP3 elisa kit	Sandwich ELISA for quantitative detection of Human MMP3 concentrations.
Other Notes	Small volumes of MMP3 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 MMP3 purchase	MBS824820 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the MMP3, 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 MMP3. The ELISA analytical biochemical technique of the MBS824820 kit is based on MMP3 antibody-MMP3 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect MMP3 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, MMP3. 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 MMP3 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MMP3. It may not necessarily be applicable to this product.

NCBI GI #	4505217
NCBI GeneID	4314
NCBI Accession #	NP_002413.1
UniProt Primary Accession #	P08254
UniProt Secondary Accession #	Q3B7S0; Q6GRF8; B2R8B8
UniProt Related Accession #	P08254
GenBank Nucleotide #	NM_002422.3
NCBI Official Full Name	stromelysin-1 preproprotein
NCBI Official Synonym Full Names	matrix metallopeptidase 3 (stromelysin 1, progelatinase)
NCBI Official Symbol	MMP3
NCBI Official Synonym Symbols	SL-1; STMY; STR1; CHDS6; MMP-3; STMY1
UniProt Protein Name	Stromelysin-1
UniProt Synonym Protein Names	Matrix metalloproteinase-3; MMP-3; Transin-1
Protein Family	Stromelysin
UniProt Gene Name	MMP3
UniProt Synonym Gene Names	STMY1; SL-1; MMP-3
UniProt Entry Name	MMP3_HUMAN
NCBI Protein Information	stromelysin-1; transin-1; proteoglycanase; matrix metalloproteinase-3; matrix metalloproteinase 3 (stromelysin 1, progelatinase)
NCBI Summary for MMP3	Proteins of the matrix metalloproteinase (MMP) family are involved in the breakdown of extracellular matrix in normal physiological processes, such as embryonic development, reproduction, and tissue remodeling, as well as in disease processes, such as arthritis and metastasis. Most MMP's are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. This gene encodes an enzyme which degrades fibronectin, laminin, collagens III, IV, IX, and X, and cartilage proteoglycans. The enzyme is thought to be involved in wound repair, progression of atherosclerosis, and tumor initiation. The gene is part of a cluster of MMP genes which localize to chromosome 11q22.3. [provided by RefSeq, Jul 2008]

UniProt Comments for MMP3	MMP3: Can degrade fibronectin, laminin, gelatins of type I, III, IV, and V; collagens III, IV, X, and IX, and cartilage proteoglycans. Activates procollagenase. Defects in MMP3 are the cause of susceptibility to coronary heart disease type 6 (CHDS6). A multifactorial disease characterized by an imbalance between myocardial functional requirements and the capacity of the coronary vessels to supply sufficient blood flow. Decreased capacity of the coronary vessels is often associated with thickening and loss of elasticity of the coronary arteries. A polymorphism in the MMP3 promoter region is associated with the risk of coronary heart disease and myocardial infarction, due to lower MMP3 proteolytic activity and higher extracellular matrix deposition in atherosclerotic lesions. Belongs to the peptidase M10A family. Protein type: Secreted; Motility/polarity/chemotaxis; Secreted, signal peptide; EC 3.4.24.17; Protease Chromosomal Location of Human Ortholog: 11q22.3 Cellular Component: proteinaceous extracellular matrix; extracellular space; mitochondrion; extracellular region; cytosol Molecular Function: zinc ion binding; metalloendopeptidase activity; endopeptidase activity; calcium ion binding Biological Process: extracellular matrix disassembly; positive regulation of protein oligomerization; collagen catabolic process; extracellular matrix organization and biogenesis; negative regulation of protein kinase B signaling cascade; protein catabolic process; proteolysis; regulation of cell migration Disease: Coronary Heart Disease, Susceptibility To, 6
Research Articles on MMP3	**1.** ROCKi decreased the association between ETS-1 and its binding sites on the MMP-3 promoter, whereas ROCKi promoted the interaction between SOX9 and the AGN promoter.
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