

Recombinant Human MMP1 protein, His-tagged

Cat. No. MMP1-26H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human MMP1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Human
Source	Insect Cells
Description	MMP1, also known as interstitial collagenase isoform 1, contains 4 hemopexin-like domains and is a member of the matrix metalloproteinase (MMP) family. It is capable of degrading a wide range of extracellular molecules and a number of bioactive molecules. It plays a central role in cell proliferation, migration, differentiation, angiogenesis, apoptosis and host defences.
Form	Liquid. In 20mM MES buffer (pH 5.5) containing 10mM CaCl ₂ , 100 mM NaCl, 0.05% Brij35, 30% glycerol.
Molecular Mass	53.1kDa (460aa) 50-70kDa (SDS-PAGE under reducing conditions)
AA Sequence	HSFPATLETQ EQDVDLVQKY LEKYYNLKNL GRQVEKRRNS GPVVEKCLKQM QEFFGLKVTG KPDAETLKVM KQPRCGVPDV AQFVLTEGNPRWEQTHLTYR IENYTPDLPR ADVDHAIIEKA FQLWSNVTPPL TFTKVSEGQA DIMISFVRGD HRDNSPFDGP GGNLAHAFQP GPGIGGDAHFEDEDERWTNNF REYNLHRVAA HELGHSLGLS HSTDIGALMY PSYTFSGDVQ LAQDDIDGIQ AIYGRSQNPV QPIGPQTPKA CDSKLTDAITIRGEVMFF KDRFYMRTNP FYPEVELNFI

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

SVFWPQLPNG LEAAYEFADR DEVRFFKGNK YWAVQQQNVL HGYPKDIYSS
 FGFPRTVKHI
 DAALSEENTG KTYFFVANKY WRYDEYKRSM DPGYPKMAIAH DFPGIGHKVD
 AVFMKDGFFY FFHGTRQYKF DPKTKRILTQ KANSWFNCRKNLEHHHHHH

Endotoxin < 1.0 EU per 1 microgram of protein (determined by LAL method)

Purity > 95% by SDS - PAGE

Storage Can be stored at +4centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20centigrade or -70centigrade. Avoid repeated freezing and thawing cycles.

Concentration 0.25mg/ml (determined by Absorbance at 280nm)

GENE INFORMATION

Gene Name [MMP1 matrix metalloproteinase 1 \(interstitial collagenase\) \[Homo sapiens \]](#)

Official Symbol [MMP1](#)

Synonyms MMP1; interstitial collagenase; fibroblast collagenase; matrix metalloprotease 1; matrix metalloproteinase 1; CLG; CLGN;

Gene ID [4312](#)

mRNA Refseq [NM_001145938](#)

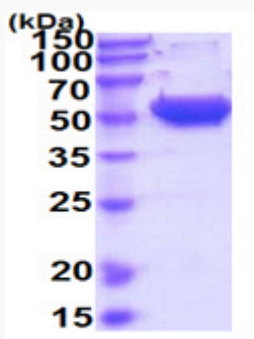
Protein Refseq [NP_001139410](#)

MIM [120353](#)

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UniProt ID	P03956
Chromosome Location	11q21-q22
Pathway	Activation of Matrix Metalloproteinases, organism-specific biosystem; Androgen Receptor Signaling Pathway, organism-specific biosystem; Basigin interactions, organism-specific biosystem; Bladder cancer, organism-specific biosystem; Bladder cancer, conserved biosystem; Cell surface interactions at the vascular wall, organism-specific biosystem; Degradation of the extracellular matrix, organism-specific biosystem;
Function	calcium ion binding; metalloendopeptidase activity; peptidase activity; zinc ion binding;
 <p>15% SDS-PAGE (3ug)</p>	

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