

# Recombinant Human matrix metalloproteinase 1 (interstitial collagenase), His-tagged

Cat. No. MMP1-445H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	MMP1, 100- 469aa, Human, His tag, E.coli
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	100-469 aa
<b>Description</b>	<p>MMP1 protein of the matrix metalloproteinase (MMP) family is 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 a secreted enzyme which breaks down the interstitial collagens, types I, II, and III. The gene is part of a cluster of MMP genes which localize to chromosome 11q22.3. Recombinant human MMP1 protein, fused to His-tag at N-terminus, was expressed in E.coli.</p>
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.4M Urea
<b>Molecular Mass</b>	45.0 kDa (393aa)
<b>AA Sequence</b>	MGSSHHHHH SGLVPRGSH MGSFVLTEGN PRWEQTHLTY RIENYTPDLP RADVDHAI EK AFQLWSNVTP LTFTKVSEGG ADIMISFVRG DHRDNPFDG

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

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

PGGNLAHAFQ PGP GIGGDAH FDEDERWTNN FREYNLHRVA AHELGHSLGL  
 SHSTDIGALM YPSYTFSGDV QLAQDDIDGI QAIYGRSQNP VQPIGPQTPK  
 ACDSKLTFDA ITTIRGEVMF FKDRFYMRTN PFYPEVELNF ISVFWPQLPN  
 GLEAAYEFAD RDEVRFKGN KYWAVQGQNV LHGYPKDIYS SFGFPRTVKH  
 IDAALSEENT GKTYFFVANK YWRYDEYKRS MDPGYPKMIA HDFPGIGHKV  
 DAVFMKDGFF YFFHGTRQYK FDPKTKRILT LQKANSWFNC RKN

**Purity** >90% by SDS - PAGE

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

**Concentration** 1mg/ml (determined by Bradford assay)

## GENE INFORMATION

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

**Official Symbol** MMP1

**Synonyms** MMP1; matrix metalloproteinase 1 (interstitial collagenase); CLG, matrix metalloproteinase 1 (interstitial collagenase); interstitial collagenase; fibroblast collagenase; matrix metalloproteinase 1; matrix metalloproteinase 1; CLG; CLGN;

**Gene ID** [4312](#)

**mRNA Refseq** [NM\\_001145938](#)

**Protein Refseq** [NP\\_001139410](#)

**MIM** [120353](#)

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<b>UniProt ID</b>	P03956
<b>Chromosome Location</b>	11q21-q22
<b>Pathway</b>	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;
<b>Function</b>	calcium ion binding; metalloendopeptidase activity; peptidase activity; zinc ion binding;

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