

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

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

SPECIFICATION

Product Overview	MMP1, 100- 469aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	100-469 aa
Description	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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.4M Urea
Molecular Mass	45.0 kDa (393aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSFVLTEGN PRWEQTHLTY RIENYTPDLR RADVDHAIEK AFQLWSNVTP LTFTKVSEGG ADIMISFVRG DHRDNSPFDG

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PGGNLAHAFQ PGP GIGGDAH FDEDERWTNN FREYNLHRVA AHELGHSLGL
 SHSTDIGALM YPSYTFSGDV QLAQDDIDGI QAIYGRSQNP VQPIGPQTPK
 ACDSKLTFDA ITTIRGEVMF FKDRFYMRTN PFYPEVELNF ISVFWPQLPN
 GLEAAYEFAD RDEVRRFFKGN KYWAVQGQNV LHGYPKDIYS SFGFPRTVKH
 IDAALSEENT GKTYFFVANK YWRYDEYKRS MDPGYPKMIA HDFPGIGHKV
 DAVFMKDGFF YFFHGTQRYK 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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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;

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