

## Recombinant Human MMP8, His-tagged

**Cat. No.** MMP8-5047H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human MMP8 protein, fused to His-tag at N-terminus, was expressed in E.coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	MMP8 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. However, the enzyme encoded by this gene is stored in secondary granules within neutrophils and is activated by autolytic cleavage. Its function is degradation of type I, II and III collagens. MMP8 is part of a cluster of MMP.
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.4M Urea
<b>Molecular Mass</b>	44.3 kDa (390aa)
<b>AA Sequence</b>	MGSSHHHHHHH SSGLVPRGSH MGSLTPGNPK WERTNLTYRI RNYTPQLSEA EVERAIKDAF ELWSVASPLI FTRISQGEAD INIAFYQRDH GDNSPFDGPN GILAHAFQPG QGIGGDAHFD AEETWTNTSA NYNLFLVAAH EFGHSLGLAH SSDPGALMYP NYAFRETSNY SLPQDDIDGI QAIYGLSSNP IQPTGPSTPK PCDPSLTFDA ITTLRGEILF FKDRYFWRRH PQLQRVEMNF ISLFWPSLPT

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GIQAAYEDFD RDLIFLFKGN QYWALSGYDI LQGYPKDISN YGFPSSVQAI  
 DAAVFYRSKT YFFVNDQFWR YDNQRQFMEP GYPKSISGAF PGIESKVDAV  
 FQQEHFFHVF SGPRYYAFDL IAQRVTRVAR GNKWLNCRYG

**Purity** >85% by SDS - PAGE

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

## GENE INFORMATION

**Gene Name** [MMP8 matrix metalloproteinase 8 \(neutrophil collagenase\) \[ Homo sapiens \]](#)

**Official Symbol** MMP8

**Synonyms** MMP8; matrix metalloproteinase 8 (neutrophil collagenase); CLG1, matrix metalloproteinase 8 (neutrophil collagenase); neutrophil collagenase; PMNL collagenase; matrix metalloproteinase-8; matrix metalloproteinase 8 (neutrophil collagenase); HNC; CLG1; MMP-8; PMNL-CL;

**Gene ID** [4317](#)

**mRNA Refseq** [NM\\_002424](#)

**Protein Refseq** [NP\\_002415](#)

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<b>MIM</b>	120355
<b>UniProt ID</b>	P22894
<b>Chromosome Location</b>	11q21-q22
<b>Pathway</b>	Activation of Matrix Metalloproteinases, organism-specific biosystem; Degradation of the extracellular matrix, organism-specific biosystem; Extracellular matrix organization, organism-specific biosystem; Matrix Metalloproteinases, organism-specific biosystem;
<b>Function</b>	calcium ion binding; metalloendopeptidase activity; peptidase activity; serine-type endopeptidase activity; zinc ion binding;

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