

Recombinant Human MMP8, His-tagged

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

SPECIFICATION

Product Overview	Recombinant human MMP8 protein, fused to His-tag at N-terminus, was expressed in E.coli.
Species	Human
Source	E.coli
Description	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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.4M Urea
Molecular Mass	44.3 kDa (390aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGS LTPGNPK 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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MIM	120355
UniProt ID	P22894
Chromosome Location	11q21-q22
Pathway	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;
Function	calcium ion binding; metalloendopeptidase activity; peptidase activity; serine-type endopeptidase activity; zinc ion binding;