

# Recombinant human MMP-8 protein

Catalog Number: ATGP2543

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

101-467aa

### UniProt No.

P22894

### NCBI Accession No.

NP\_002415.1

### Alternative Names

Neutrophil collagenase preproprotein, CLG1, HNC, MMP-8, PMNL-CL, Matrix metalloproteinase-8, MMP-8, PMNL collagenase

## PRODUCT SPECIFICATION

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### Molecular Weight

44.3 kDa (390aa)

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.4M urea

### Purity

> 85% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE, Denatured

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### 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

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I, II and III collagens. MMP8 is part of a cluster of MMP. Recombinant human MMP8 protein, fused to His-tag at N-terminus, was expressed in E. coli.

## Amino acid Sequence

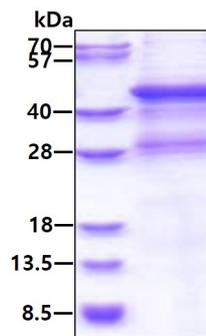
<MGSSHHHHHH SSGLVPRGSH MGS>LTPGNPK WERTNLTYRI RNYTPQLSEA EVERAIKDAF ELWSVASPLI FTRISQGEAD  
INIAFYQRDH GDNSPFDGPN GILAHAFQPG QGIGGDAHFD AEETWTNTSA NYNLFLVA AH EFGHSLGLAH SSDPGALMYP  
NYAFRETSNY SLPQDDIDGI QAIYGLSSNP IQPTGPSTPK PCDPSLTFDA ITTLRGEILF FKDRYFWRRH PQLQRVEMNF  
ISLFWPSLPT GIQAAYEDFD RDLIFLFKGN QYWALSGYDI LQGYPKDISN YGFPSSVQAI DAAVFYRSKT YFFVNDQFWR  
YDNQRQFM EP GYPKSISGAF PGIESKVDAV FQKEHFFHVF SGPRYYAFDL IAQRVTRVAR GNKWLNCRYG

## General References

Hasty K.A., et al (1990). J. Biol. Chem. 265:11421-11424  
Betz M., et al (1997). Eur. J. Biochem. 247:356-363

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.