

Recombinant human MMP-8 protein

Catalog Number: ATGP2543

PRODUCT INFORMATION

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

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

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 NYNLFLVAAH EFGHSLGLAH SSDPGALMYP
NYAFRETSNY SLPQDDIDGI QAIYGLSSNP IQPTGPSTPK PCDPSLTFDA ITTLRGEILF FKDRYFWRRH PQLQRVEMNF
ISLFWPSLPT GIQAAYEDFD RDLIFLFKGN QYWALSGYDI LQGYPKDISN YGFPSSVQAI DAAVFYRSKT YFFVNDQFWR
YDNQRQFMPEP GYPKSISGAF PGIESKVDAV FQQEHFFHVF SGPRYYAFDL IAQRVTRVAR GNKWLNCRYG

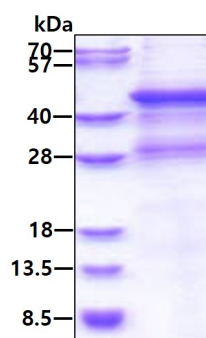
General References

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.