

Recombinant human MMP-9 protein

Catalog Number: ATGP3836

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

20-707aa

UniProt No.

P14780

NCBI Accession No.

NP_004985.2

Alternative Names

Matrix metalloproteinase-9, MMP-9, CLG4B, GELB, MANDP2, Gelatinase B, 92kDa gelatinase, 92kDa type IV collagenaseANDP2, MMP-9

PRODUCT SPECIFICATION

Molecular Weight

77.1 kDa (694aa)

Concentration

0.5mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 90% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

His-Tag

Application

SDS-PAGE

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

MMP9, also known matrix metalloproteinase-9, is one of the matrix metalloproteinases superfamily which is zinc and calcium dependent endopeptidases with the combined ability to degrade all the components of the extracellular matrix. It degrades many substrates such as gelatin, collagens, elastin and proteoglycan core

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protein which appears to be involved in invasive ability. This protein also plays an essential role in leukocyte migration and in bone osteoclastic resorption. It plays an important role in angiogenesis and neovascularization and so appears to be involved in the remodeling associated with malignant glioma neovascularization. Recombinant human MMP9 protein, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

APRQRQSTLV LFPGLRNTL TDRQLAEEYL YRYGYTRVAE MRGESKSLGP ALLLLQKQLS LPETGELDSA TLKAMRTPRC
GVPDLGRFQT FEGDLKWHHH NITYWIQNY EDLPRAVIDD AFARAFALWS AVTPLTFTRV YSRDADIVIQ FGVAEHGDGY
PFDGKDGLLA HAFPPGPGIQ GDAHFDDDEL WSLGKGVVVP TRFGNADGAA CHFPFIFEGR SYSACTTDGR SDGLPWCSTT
ANYDTDDRFG FCPSERLYTQ DGNADGKPCQ FPFIFQGQSY SACTTDGRSD GYRWCATTAN YDRDKLFGFC PTRADSTVMG
GNSAGELCVF PFTFLGKEYS TCTSEGRGDG RLWCATTSNF DSDKKWGFCP DQGYSLFLVA AHEFGHALGL DHSSVPEALM
YPMYRFTEGP PLHKDDVNGI RHLYGPRPEP EPRPPTTTTP QPTAPPTVCP TGPPTVHPSE RPTAGPTGPP SAGPTGPPTA
GPSTATTVPL SPVDDACNVN IFDAIAEIGN QLYLFKDGKY WRFSEGRGSR PQGPFLIADK WPALPRKLDV VFEERLSKKL
FFFSGRQVWV YTGASVLGPR RLDKLGLGAD VAQVTGALRS GRGKMLLFSG RRLWRFDVKA QMVDPRSASE
VDRMFPGVPL DTHDVFQYRE KAYFCQDRFY WRVSSRSELN QVDQVGYVTY DILQCPED<HH HHHH>

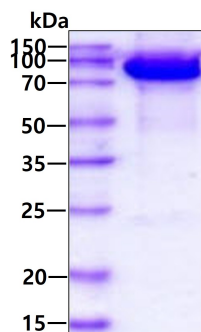
General References

Lee YD., et al, (2014) BMB Rep. 47:262-267.

Matin S., et al, (2018) Int J Chron Obstruct Pulmon Dis. 13:1449-1454.

DATA

SDS-PAGE



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