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

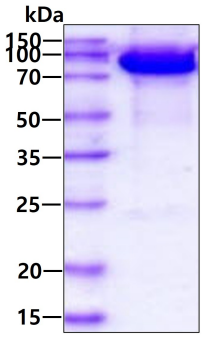
APRQRQSTLV LFPGDLRTNL TDRQLAEEYL YRYGYTRVAE MRGESKSLGP ALLLLQKQLS LPETGELDSA TLKAMRTPRC GVPDLGRFQT FEGDLKWHHH NITYWIQNYS EDLPRAVIDD AFARAFALWS AVTPLTFTRV YSRDADIVIQ FGVAEHGDGY PFDGKDGLLA HAFPPGPGIQ GDAHFDDDEL WSLGKGVVVP TRFGNADGAA CHFPFIFEGR SYSACTTDGR SDGLPWCSTT ANYDTDDRFG FCPSERLYTQ DGNADGKPCQ FPFIFQGQSY 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 WPALPRKLDS 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.