

Recombinant Full Length human MMP9 protein, His-tagged

Cat. No. MMP9-23HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length human MMP9 protein, with His tag, was expressed in Baculovirus.
Species	Human
Source	His
ProteinLength	20-707 aa
Tag	His
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 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, was expressed in insect cell and purified by using conventional chromatography techniques.
Molecular Mass	77.1 kDa
AA Sequence	APRQRQSTLV LFPGLRTNL TDRQLAEEYL YRYGYTRVAE MRGESKSLGP

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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 QVDQVGIVTY
 DILQCPED

Purity	> 90% by SDS-PAGE
Applications	SDS-PAGE
Notes	For research use only. This product is not intended or approved for human, diagnostics or veterinary use.
Storage	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.
Concentration	0.5mg/ml (determined by absorbance at 280nm)

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Storage Buffer	Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol
GeneID	4318
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.

GENE INFORMATION

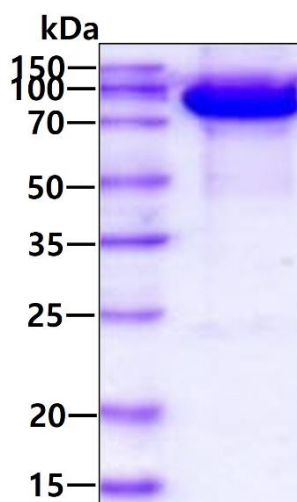
Gene Name	MMP9 matrix metalloproteinase 9 [Homo sapiens (human)]
Official Symbol	MMP9
Synonyms	Matrix metalloproteinase-9, MMP-9, CLG4B, GELB, MANDP2, Gelatinase B, 92kDa gelatinase, 92kDa type IV collagenaseANDP2, MMP9
mRNA Refseq	NM_004994
Protein Refseq	NP_004985
MIM	120361
UniProt ID	P14780

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



SDS-PAGE

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