

Active Recombinant Mouse MMP9 protein, His-tagged

Cat. No. MMP9-05M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse MMP9 protein, fused to His-tag, was expressed in HEK293.
Species	Mouse
Source	Insect Cells
ProteinLength	20-730aa
Description	This gene encodes a member of the matrix metalloproteinase family of extracellular matrix-degrading enzymes that are involved in tissue remodeling, wound repair, progression of atherosclerosis and tumor invasion. The encoded preproprotein undergoes proteolytic processing to generate a mature, zinc-dependent endopeptidase enzyme that degrades collagens of type IV, V and XI, and elastin. Mice lacking the encoded protein exhibit an abnormal pattern of skeletal growth plate vascularization and ossification, reduced keratinocyte hyperproliferation at all neoplastic stages, a decreased incidence of invasive tumors, and resistance to experimental autoimmune encephalomyelitis.
Form	Liquid. In 20mM Tris-HCl (pH 7.5) containing 10mM CaCl ₂ , 100mM NaCl, 0.05% Brij35, 10% glycerol.
Bio-activity	Specific activity is > 500 pmol/min/ug, and is defined as the amount of enzyme that cleaves 1pmol of Mca-PLGL-Dpa-AR-NH ₂ per minute at pH 7.5 at 25 centigrade.
Molecular Mass	79.3 kDa

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AA Sequence

APYQRQPTFV VFPKDLKTSN LTDTQLAEAY LYRYGYTRAA QMMGEKQSLR
 PALLMLQKQL SLPQTGELDS QTLKAIRTPR CGVPDVGRFQ TFKGLKWDHH
 NITYWIQNYS EDLPRDMIDD AFARAFVWG EVAPLTFTRV YGPEADIVIQ
 FGVAEHGDGY PFDGKDGLLA HAFPPGAGVQ GDAHFDDDEL WSLGKGVVIP
 TYYGNSNGAP CHFPFTFEGR SYSACTTDGR NDGTPWCSTT ADYDKDGKFG
 FCPSERLYTE HGNGEGKPCV PPFIFEGRSY SACTTKGRSD GYRWCATTAN
 YDQDKLYGFC PTRVDATVVG GNSAGELCVF PFVFLGKQYS SCTSDGRRDG
 RLWCATTSNF DTDKKWGFPC DQGYSLFLVA AHEFGHALGL DHSSVPEALM
 YPLYSYLEGF PLNKDDIDGI QYLYGRGSKP DPRPPATTTT EPQPTAPPTM
 CPTIPPTAYP TVGPTVGPTG APSPGPTSSP SPGPTGAPSP GPTAPPTAGS
 SEASTESLSP ADNPCNVDVF DAIAEIQ GAL HFFKDGWYWK FLNHRGSPLQ
 GPFLTARTWP ALPATLDSAF EDPQTKRVFF FSGRQMWVYT GKTVLGPRSL
 DKLGLGPEVT HVSGLLPRL GKALLFSKGR VWRFDLKSQK VDPQSVIRVD
 KEFSGVPWNS HDIFQYQDKA YFCHGKFFWR VSFQNEVNKV DHEVNQVDDV
 GYVTYDLLQC P

Endotoxin

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

Purity

> 85%

Applications

SDS-PAGE, Enzyme Activity

Storage

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

Concentration

0.25 mg/ml

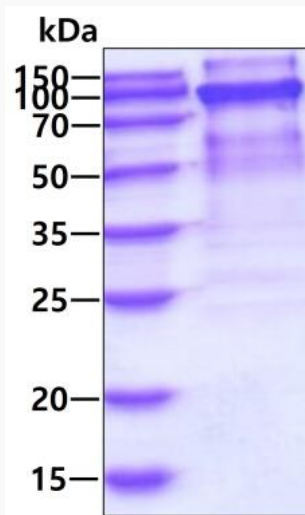
GENE INFORMATION

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Gene Name	Mmp9 matrix metalloproteinase 9 [<i>Mus musculus</i> (house mouse)]
Official Symbol	MMP9
Synonyms	Matrix metalloproteinase-9; 92 kDa gelatinase; 92 kDa type IV collagenase; Gelatinase B; GELB; Mmp9; MANDP2; AW743869; B/MMP; B/MMP9; Clg4; Clg4b; Gel B; MMP-9; pro-MMP-9
Gene ID	17395
mRNA Refseq	NM_013599
Protein Refseq	NP_038627
UniProt ID	P41245

SDS-PAGE


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

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