

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 CaCl₂, 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-NH₂ 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 GDAHFDDEL WSLGKGVVIP
TYYGNSNGAP CHFPTFEGR SYSACTTDGR NDGTPWCSTT ADYDKDGKFG
FCPSELYTE 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 ADNPCNVDF DAIAEIQ GAL HFFKDGWYWK FLNHRGSPLQ
GPFLTARTWP ALPATLDSAF EDPQTKRVFF FSGRQMWVYT GKTVLGPRSL
DKLGLGPEVT HVSGLLPRRL 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

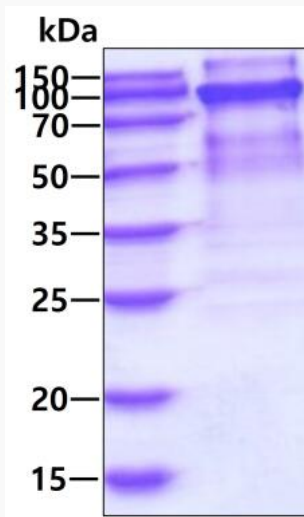
GENE INFORMATION

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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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