Active Recombinant Mouse MMP9 protein, His-tagged

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

SPECIFICATION

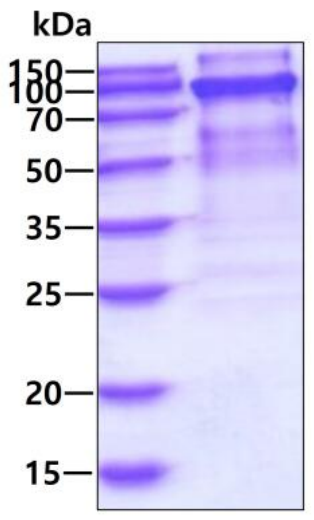
Product Overview	Recombinant Mouse MMP9 protein, fused to His-tag, was expressed in HEK293.
Species	Mouse
Source	Insect Cells
ProteinLength	20-730aa
Description	This gene encodes a member of the matrix metalloproteinase family of extracellular matrix-degrading enzymes that are involved in tissue remodeling, 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 AFARAFAVWG EVAPLTFTRV YGPEADIVIQ FGVAEHGDGY PFDGKDGLLA HAFPPGAGVQ GDAHFDDDEL WSLGKGVVIP TYYGNSNGAP CHFPFTFEGR SYSACTTDGR NDGTPWCSTT ADYDKDGKFG FCPSERLYTE HGNGEGKPCV FPFIFEGRSY SACTTKGRSD GYRWCATTAN YDQDKLYGFC PTRVDATVVG GNSAGELCVF PFVFLGKQYS SCTSDGRRDG RLWCATTSNF DTDKKWGFCP DQGYSLFLVA AHEFGHALGL DHSSVPEALM YPLYSYLEGF PLNKDDIDGI QYLYGRGSKP DPRPPATTTT EPQPTAPPTM CPTIPPTAYP TVGPTVGPTG APSPGPTSSP SPGPTGAPSP GPTAPPTAGS SEASTESLSP ADNPCNVDVF DAIAEIQGAL 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 metallopeptidase 9 [Mus musculus (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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