Active Recombinant Mouse Mmp9 Protein (20-730aa), C-His-tagged

Cat. No. Mmp9-03M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse MMP-9 protein (20-730aa), fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.
Species	Mouse
Source	HEK293
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
Bio-activity	> 1,500 pmol/min/μg, and is defined as the amount of enzyme that cleaves 1 pmol of Mca-PLGL-Dpa-AR-NH2 per minute at pH 7.5 at 25 centigrade.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Molecular Mass	79.3 kDa (717aa)
AA Sequence	APYQRQPTFVVFPKDLKTSNLTDTQLAEAYLYRYGYTRAAQMMGEKQSLRPALLML QKQLSLPQTGELDSQTLKAIRTPRCGVPDVGRFQTFKGLKWDHHNITYWIQNYSED LPRDMIDDAFARAFAVWGEVAPLTFTRVYGPEADIVIQFGVAEHGDGYPFDGKDGLL AHAFPPGAGVQGDAHFDDDELWSLGKGVVIPTYYGNSNGAPCHFPFTFEGRSYSA CTTDGRNDGTPWCSTTADYDKDGKFGFCPSERLYTEHGNGEGKPCVFPFIFEGRS YSACTTKGRSDGYRWCATTANYDQDKLYGFCPTRVDATVVGGNSAGELCVFPFVF LGKQYSSCTSDGRRDGRLWCATTSNFDTDKKWGFCPDQGYSLFLVAAHEFGHALG LDHSSVPEALMYPLYSYLEGFPLNKDDIDGIQYLYGRGSKPDPRPPATTTTEPQPTA PPTMCPTIPPTAYPTVGPTVGPTGAPSPGPTSSPSPGPTGAPSPGPTAPPTAGSSE ASTESLSPADNPCNVDVFDAIAEIQGALHFFKDGWYWKFLNHRGSPLQGPFLTART WPALPATLDSAFEDPQTKRVFFFSGRQMWVYTGKTVLGPRSLDKLGLGPEVTHVS GLLPRRLGKALLFSKGRVWRFDLKSQKVDPQSVIRVDKEFSGVPWNSHDIFQYQDK AYFCHGKFFWRVSFQNEVNKVDHEVNQVDDVGYVTYDLLQCP
Endotoxin	< 1 EU/μg of protein (determined by LAL method)
Purity	> 90% by SDS-PAGE
Applications	SDS-PAGE, Enzyme Activity
Notes	For research use only. This product is not intended or approved for human, diagnostics or veterinary use.
Storage	Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/mL (determined by Bradford assay)

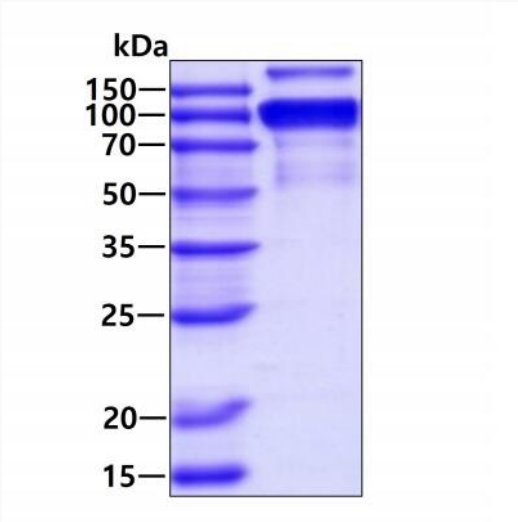
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Storage Buffer	Liquid in. 20mM Tris-HCl (pH 7.5) containing 1mM CaCl2, 100mM NaCl, 10% glycerol

GENE INFORMATION

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

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA