

Recombinant Mouse MMP-9

Catalog No: CC25

Description	Recombinant Mouse Matrix Metalloproteinase-9 is produced by our Mammalian expression system and the target gene encoding Ala20-Pro730 is expressed with a 10His tag at the C-terminus.
Source	Human Cells
Alternative name	Matrix metalloproteinase-9; MMP-9; 92 kDa gelatinase; 92 kDa type IV collagenase; Gelatinase B; GELB
Accession No.	P41245
Formulation	Supplied as a 0.2 µm filtered solution of 20mM Tris, 150mM NaCl, pH7.5
Quality Control	Purity: Greater than 95% as determined by reducing SDS-PAGE. Endotoxin: Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.
Shipping	The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below.
Storage	Store at < -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.

Amino Acid Sequence

APYQRQPTFVFPKDLKTSNLTDTQLAEAYLYRYGYTRAAQMMGEKQSLRPALLMLQKQLSLPQTGELD
SQTLLKAIRTPRCGVPDVGRFQTFKGLKWDHNNITYWIQNYSEDLPDMIDDAFARAFVWGEVAPLTFTF
VYGPEADIVIQFGVAEHGDGYFPDGDGLLAHAFPPGAGVQGDAHFDDELWSLKGKGVVIPTYYGNSNG
APCHFPTFEGRSYSACTTDGRNDGTPWCSTTADYDKDGKFGFCPSERLYTEHNGEGKPCVFPFIFE
GRSYSACTTKGRSDGYRWCAATTANYDQDKLYGFCPTRVDATVVGNSAGELCVFPFVFLGKQYSSCTS
DGRRDGRLWCATTSNFDTDKKWGFCPDQGYSLFLVAAHEFGHALGLDHSSVPEALMYPLYSYLEGFPL
NKDDIDGIQYLYGRGSKPDPRPPATTTTEPQPTAPPTMCPTIPPTAYPTVGPTVGPTGAPSPGPTSSPSP
GPTGAPSPGPTAPPTAGSSEASTESLSPADNPCNVDFDAIAEIQGALHFFKDGWYWKFLNHRGSPQLQG
PFLTARTWPALPATLDSAFEDPQTKRVFFFSGRQMWWYTGKTVLGPRSLDKLGLGPEVTHVSGLLPRRL
GKALLFSKGRVWRFDLKSQKVDQSVIRVDKEFSGVPWNSHDIFQYQDKAYFCHGKFFWRVVSFQNEVN
KVDHEVNQVDDVGYVTDLLQCPGGGGSHHHHHHHHHH

Background

Matrix metalloproteinases are a family of zinc and calcium dependent endopeptidases with the combined ability to degrade all the components of the extracellular matrix. MMP-9 (gelatinase B) can degrade a broad range of substrates including gelatin, collagen types IV and V, elastin and proteoglycan core protein. It is believed to act synergistically with interstitial collagenase (MMP1) in the degradation of fibrillar collagens as it degrades their denatured gelatin forms. MMP-9 is produced by keratinocytes, monocytes, macrophages and PMN leukocytes. MMP-9 is present in most cases of inflammatory responses. Structurally, MMP-9 may be divided into five distinct domains: a prodomain which is cleaved upon activation, a gelatinbinding domain consisting of three contiguous fibronectin type II units, a catalytic domain containing the zinc binding site, a prolinerich linker region, and a carboxyl terminal hemopexinlike domain.

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