

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.

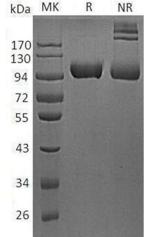
Amino Acid Sequence SQTLKAIRTPRCGVPDVGRFQTFKGLKWDHHNITYWIQNYSEDLPRDMIDDAFARAFAVWGEVAPLTFTR VYGPEADIVIQFGVAEHGDGYPFDGKDGLLAHAFPPGAGVQGDAHFDDDELWSLGKGVVIPTYYGNSNG APCHFPFTFEGRSYSACTTDGRNDGTPWCSTTADYDKDGKFGFCPSERLYTEHGNGEGKPCVFPFIFE GRSYSACTTKGRSDGYRWCATTANYDQDKLYGFCPTRVDATVVGGNSAGELCVFPFVFLGKQYSSCTS DGRRDGRLWCATTSNFDTDKKWGFCPDQGYSLFLVAAHEFGHALGLDHSSVPEALMYPLYSYLEGFPL NKDDIDGIQYLYGRGSKPDPRPATTTTEPQPTAPPTMCPTIPPTAYPTVGPTVGPTGAPSPGPTSSPSP GPTGAPSPGPTASSEASTESLSPADNPCNVDVFDAIAEIQGALHFFKDGWYWKFLNHRGSPLQG PFLTARTWPALPATLDSAFEDPQTKRVFFFSGRQMWVYTGKTVLGPRSLDKLGLGPEVTHVSGLLPRRL GKALLFSKGRVWRFDLKSQKVDPQSVIRVDKEFSGVPWNSHDIFQYQDKAYFCHGKFFWRVSFQNEVN KVDHEVNQVDDVGYVTYDLLQCPGGGGSHHHHHHHHHHH

APYQRQPTFVVFPKDLKTSNLTDTQLAEAYLYRYGYTRAAQMMGEKQSLRPALLMLQKQLSLPQTGELD

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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