

Recombinant Human MMP9 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. MMP9-3361H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MMP9 MS Standard C13 and N15-labeled recombinant protein (NP_004985) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	Proteins of the matrix metalloproteinase (MMP) family are involved in the breakdown of extracellular matrix in normal physiological processes, such as embryonic development, reproduction, and tissue remodeling, as well as in disease processes, such as arthritis and metastasis. Most MMP's are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. The enzyme encoded by this gene degrades type IV and V collagens. Studies in rhesus monkeys suggest that the enzyme is involved in IL-8-induced mobilization of hematopoietic progenitor cells from bone marrow, and murine studies suggest a role in tumor-associated tissue remodeling.
Molecular Mass	78.3 kDa
AA Sequence	MSLWQPLVLVLLVLGCCFAAPRQRQSTLVLFPGDLRTNLTDRQLAEEYLYRYGYTR VAEMRGESKSLGPALLLLQKQLSLPETGELDSATLKAMRTPRCGVPDLGRFQTFEG DLKWHHHNITYWIQNYSEDLPRAVIDDAFARAFALWSAVTPLTFTRVYSRDADIVIQF GVAEHGDGYFPDGDGKDLLAHAFPPGPGIQGDAHFDDELWSLGKGVVVPTRFGNA

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DGAACHFPFIFEGRSYSACTTDGRSDGLPWCSTTANYDTDDRFGFCPSERLYTRD
 GNADGKPCQFPFIFQGQSYSACTTDGRSDGYRWCATTANYDRDKLFGFCPTRADS
 TVMGGNSAGELCVFPFTFLGKEYSTCTSEGRGDGRLWCATTSNFDSDDKKWGFCD
 QGYSLFLVAAHEFGHALGLDHSSVPEALMYPMYRFTGPPPLHKDDVNGIRHLYGPR
 PEPEPRPPTTTTPQPTAPPTVCPTGPPTVHPSERPTAGPTGPPSAGPTGPPTAGPS
 TATTVPLSPVDDACNVNIFDAIAEIGNQLYLKFDGKYWRFSEGRGSRPQGPFLIADK
 WPALPRKLDVFEEPLSKKLFFFSGRQVWVYTASVLGPRRLDKLGLGADVAQVTG
 ALRSGRGKMLLFSGRRLWRFDVKAQMVDPRSASEVDRMFPGVPLDTHDVFQYRE
 KAYFCQDRFYRRVSSRSELNQVDQVG YV TYDILQCPEDTRTRPLEQKLISEEDLAAN
 DILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name MMP9 matrix metalloproteinase 9 [Homo sapiens (human)]

Official Symbol MMP9

Synonyms MMP9; matrix metalloproteinase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase); CLG4B, matrix metalloproteinase 9 (gelatinase B, 92kD gelatinase, 92kD type IV collagenase), matrix metalloproteinase 9 (gelatinase B, 92kDa

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gelatinase, 92kDa type IV collagenase); matrix metalloproteinase-9; 92 kDa gelatinase; type V collagenase; macrophage gelatinase; 92 kDa type IV collagenase; matrix metalloproteinase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase); GELB; CLG4B; MMP-9; MANDP2;

Gene ID [4318](#)

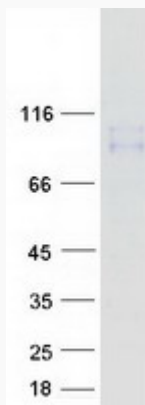
mRNA Refseq [NM_004994](#)

Protein Refseq [NP_004985](#)

MIM [120361](#)

UniProt ID [P14780](#)

SDS-PAGE



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