

## Recombinant Human MMP9 Protein, His-tagged

Cat. No. MMP9-801H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human MMP9 protein with His tag was expressed in HEK293.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	<p>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.</p>
<b>Form</b>	Lyophilized
<b>Molecular Mass</b>	50.8 kDa
<b>AA Sequence</b>	<p>MSLWQPLVLVLLVLGCCFAAPRQRQSTLVLFPGDLRTNLTDRQLAEEYLYRYGYTR            VAEMRGESKSLGPALLLLQKQLSLPETGELDSATLKAMRTPRCGVPDLGRFQTFEG            DLKWHHHNITYWIQNYSEDLPRAVIDDAFARAFALWSAVTPLTFTRVYSRDADIVIQF            GVAEHGDGYFPDGDGLLAHAFPPGPGIQGDAHFDDELWSLGKGVVVPTRFGNA            DGAACHFPFIFEGRSYSACTTDGRSDGLPWCSTTANYDTDDRFGFCPSERLYTQD</p>

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GNADGKPCQFPFIFQQSYSACTTDGRSDGYRWCATTANYDRDKLFGFCPTRADS  
 TVMGGNSAGELCVFPFTFLGKEYSTCTSEGRGDGRLWCATTSNFSDSKKWGFPCD  
 QGYSLFLVAAHEFGHALGLDHSSVPEALMYPMYRFTEGPPLHKDDVNGIRHLYGPR  
 PEPEPRPPTTTTPQPTAPPTVCPTGPPTVHPSERPTAGPTGPPSAGPTGPPTAGPS  
 TATTVPLSPVDDACNVNIFDAIAEIGNQLYLFKDGKYWRFSEGRGSRPQGPFLIADK  
 WPALPRKLDVFEERLSKKLFFFSGRQVWVYTGASVLGPRRLDKLGLGADVAQVTG  
 ALRSGRGKMLLFSGRRLWRFDVKAQMVDPRSASEVDRMFPGVPLDTHDVFQYRE  
 KAYFCQDRFYWRVSSRSELNQVDQVGYVTDILQCPED

**Purity** > 98%

**Applications** WB; ELISA; FACS; FC

**Stability** This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term). After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18 centigrade for future use.

**Storage** At -20 centigrade.

**Concentration** 1 mg/mL

**Storage Buffer** PBS (pH 7.4-7.5). Sterile-filtered colorless solution.

**Reconstitution** Reconstitute in sterile distilled H2O to no less than 100 µg/mL; dilute reconstituted stock further in other aqueous solutions if needed. Please review COA for lot-specific instructions. Final measurements should be determined by the end-user for optimal performance.

## GENE INFORMATION

**Gene Name** MMP9 matrix metalloproteinase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV)

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collagenase) [ 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 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](#)

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