

# Recombinant Human matrix metalloproteinase 9 Protein, Tag Free

Cat. No. MMP9-039H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	The sequence (Accession # NP_004985.2) corresponding to the catalytic domain (aa 112-445) of Human MMP-9 was expressed in E. coli. The recombinant human MMP-9 was purified from bacterial lysate and refolded using proprietary technique.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	112-445aa
<b>Description</b>	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.
<b>Tag</b>	Non
<b>Form</b>	Solution

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<b>Molecular Mass</b>	40 kDa
<b>Purity</b>	≥95% by SDS-PAGE
<b>Applications</b>	Protease activity
<b>Usage</b>	Research use
<b>Storage</b>	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
<b>Storage Buffer</b>	300 mM NaCl, 50 mM Tris-HCl, 5 mM CaCl <sub>2</sub> , 20 μM ZnCl <sub>2</sub> , pH=7.5.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	MMP9 matrix metalloproteinase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase) [ Homo sapiens (human) ]
<b>Official Symbol</b>	MMP9
<b>Synonyms</b>	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
<b>Gene ID</b>	4318
<b>mRNA Refseq</b>	NM_004994

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**Protein Refseq** NP\_004985

**MIM** 120361

**UniProt ID** P14780

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