

Recombinant Human matrix metalloproteinase 9 Protein, Tag Free

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	E.coli
ProteinLength	112-445aa
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.
Tag	Non
Form	Solution

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Molecular Mass	40 kDa
Purity	≥95% by SDS-PAGE
Applications	Protease activity
Usage	Research use
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Storage Buffer	300 mM NaCl, 50 mM Tris-HCl, 5 mM CaCl ₂ , 20 μM ZnCl ₂ , pH=7.5.
GENE INFORMATION	
Gene Name	MMP9 matrix metalloproteinase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV 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

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Protein Refseq	NP_004985
MIM	120361
UniProt ID	P14780

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