

## Recombinant Human MMP9, His-tagged

Cat. No. MMP9-29699TH Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full length Human MMP9 protein with an N-terminal 6xHis tag; amino acids 20-707 , 77kDa.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	20-707 a.a.
<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 MMPs 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>Conjugation</b>	HIS
<b>Tissue specificity</b>	Produced by normal alveolar macrophages and granulocytes.
<b>Form</b>	Liquid

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<b>Purity</b>	>95% by SDS-PAGE
<b>Storage buffer</b>	Preservative: None Constituents: 50% Glycerol, PBS, pH 7.2
<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Sequence Similarities</b>	Belongs to the peptidase M10A family. Contains 3 fibronectin type-II domains. Contains 4 hemopexin-like domains.
<b>Full Length</b>	Full L.

## GENE INFORMATION

<b>Gene Name</b>	MMP9 matrix metalloproteinase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase) [ Homo sapiens ]
<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
<b>Gene ID</b>	4318
<b>mRNA Refseq</b>	NM_004994
<b>Protein Refseq</b>	NP_004985
<b>MIM</b>	120361

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<b>Uniprot ID</b>	P14780
<b>Chromosome Location</b>	20q12-q13
<b>Pathway</b>	Bladder cancer, organism-specific biosystem; Bladder cancer, conserved biosystem; CXCR4-mediated signaling events, organism-specific biosystem; Endochondral Ossification, organism-specific biosystem; FGF signaling pathway, organism-specific biosystem;
<b>Function</b>	collagen binding; fibronectin binding; metal ion binding; metalloendopeptidase activity; peptidase activity;

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