Recombinant Human MMP9, GST-tagged

Cat. No. MMP9-3829H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MMP9 was expressed as gst-tagged fusion protein by E.Coli and puri?ed by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-100aa
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.
Storage	The protein is stored in PBS bu?er at -20 oC. Repeated freeze-thaw cycles should be avoided.
Storage Buffer	1M PBS (58mM Na2HPO4,17mM NaH2PO4, 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100,15%glycerol.

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GENE INFORMATION

Gene Name	MMP9 matrix metallopeptidase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase) [Homo sapiens]
Official Symbol	MMP9
Synonyms	MMP9; matrix metallopeptidase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase); GELB; CLG4B; MMP-9; MANDP2; matrix metalloproteinase 9; type V collagenase; macrophage gelatinase; matrix metalloproteinase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase); EC 3.4.24.35; Matrix metalloproteinase-9; 92 kDa type IV collagenase; 92 kDa gelatinase; Gelatinase B; GELB; 67 kDa matrix metalloproteinase-9; 82 kDa matrix metalloproteinase-9; OTTHUMP00000031674; type V collagenase
Gene ID	4318
mRNA Refseq	NM_004994
Protein Refseq	NP_004985
MIM	120361
UniProt ID	P14780
Chromosome Location	20q11.2-q13.1
Pathway	Bladder cancer; Leukocyte transendothelial migration; Pathways in cancer
Function	calcium ion binding; collagen binding; metalloendopeptidase activity; peptidase

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	activity; zinc ion binding

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