

Native Human MMP9

Cat. No. MMP9-30035TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Metalloproteinase purified from cell culture media of BHK cells transfected with Murine 105 kD Gelatinase (murine homologue of Human MMP9).
Species	Human
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 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.
Tissue specificity	Produced by normal alveolar macrophages and granulocytes.
Form	Liquid
Storage buffer	Preservative: None Constituents: 50% Glycerol, PBS, 250mM Sodium chloride, 0.6 % DMSO, pH 7.4
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Sequence	Belongs to the peptidase M10A family. Contains 3 fibronectin type-II

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Similarities domains.Contains 4 hemopexin-like domains.

GENE INFORMATION

Gene Name MMP9 matrix metalloproteinase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase) [Homo sapiens]

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

Gene ID 4318

mRNA Refseq NM_004994

Protein Refseq NP_004985

MIM 120361

Uniprot ID P14780

Chromosome Location 20q12-q13

Pathway 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;

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Function

collagen binding; fibronectin binding; metal ion binding; metalloendopeptidase activity; peptidase activity;

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