

## Native Human MMP9

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

### SPECIFICATION

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

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

**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;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



**Function**

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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA