

## Native Human MMP-9/Lipocalin/TIMP-1 Complex

Cat. No. MMP9-40H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Matrix Metalloproteinase 9–Lipocalin–TIMP-1 complex, Gelatinase B, 92-kDa Type IV Collagenase, EC 3.4.24.35). Prepared from human blood certified to be negative for HBsAg and for antibodies to HIV and HCV.

**Species** Human

**Source** Human Neutrophil

**Form** Liquid, in 50 mM Tris/HCl, pH 7.0, 200 mM NaCl, 5 mM CaCl<sub>2</sub>, 1 μM ZnCl<sub>2</sub>, 0.05% NaN<sub>3</sub>, 0.05% Brij 35.

**Purity** >95%, homogenous by electrophoresis and Western Blotting analysis

**Unit Definition** The specific activity can be assayed with the synthetic substrate N-(2,4)-dinitrophenyl-Pro-Gln-Gly-Ile-Ala-Gly-Gln-D-Arg (Dnp-peptide) (Masui et al. 1977). One unit MMP catalyzes the hydrolysis of 1 μmol Dnp peptide/min at 37°C and pH 7.0.

**Storage** The enzyme is very stable if stored at -80°C. Repeated freezing and thawing must be avoided.

### GENE INFORMATION

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

 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

<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 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;
<b>Gene ID</b>	4318
<b>mRNA Refseq</b>	NM_004994
<b>Protein Refseq</b>	NP_004985
<b>MIM</b>	120361
<b>UniProt ID</b>	P14780
<b>Chromosome Location</b>	20q12-q13
<b>Pathway</b>	Activation of Matrix Metalloproteinases, organism-specific biosystem; Bladder cancer, organism-specific biosystem; Bladder cancer, conserved biosystem; CXCR4-mediated signaling events, organism-specific biosystem; Degradation of the extracellular matrix, organism-specific biosystem; Endochondral Ossification, organism-specific biosystem; Extracellular matrix organization, organism-specific biosystem;
<b>Function</b>	collagen binding; fibronectin binding; metal ion binding; metalloendopeptidase activity;

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peptidase activity; protein binding; protein complex binding; zinc ion binding;

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