

Native Human MMP-9

Cat. No. MMP9-38H Lot. No. (See product label)

SPECIFICATION

Product Overview Matrix Metalloproteinase 9 Dimer (MMP-9, Gelatinase B, 92-kDa Type IV Collagenase, EC 3.4.24.35). Prepared from human serum 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 CaCl₂, 1 μM ZnCl₂, 0.05% NaN₃, 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 kept at -80°C. Nevertheless 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]

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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 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;
Gene ID	4318
mRNA Refseq	NM_004994
Protein Refseq	NP_004985
MIM	120361
UniProt ID	P14780
Chromosome Location	20q12-q13
Pathway	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;
Function	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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