

## Active Recombinant Human MMP9 protein(Met1-Asp707)

Cat. No. MMP9-661H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human MMP9 zymogen (NP_004985.2) (Met 1-Asp 707) was expressed in HEK293.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	Met1-Asp707
<b>Form</b>	Lyophilized from sterile 50mM Tris, 0.15M NaCl, 0.01M CaCl <sub>2</sub> , 0.05% Brig-35, pH 7.5. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
<b>Bio-activity</b>	Measured by its ability to cleave the fluorogenic peptide substrate, Mca-PLGL-Dpa-AR-NH <sub>2</sub> . The specific activity is >600 pmoles/min/μg. (Activation description: The proenzyme needs to be activated by APMA for an activated form)
<b>Molecular Mass</b>	The recombinant human MMP9 consisting of 688 amino acids has a predicted molecular mass of 76.3 kDa. The apparent molecular mass of rh MMP9 is approximately 80-95 kDa in SDS-PAGE due to glycosylation.
<b>Endotoxin</b>	< 1.0 EU per μg of the protein as determined by the LAL method
<b>Purity</b>	> 90 % as determined by SDS-PAGE

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**Storage** Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

**Reconstitution** It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

## 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 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

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