

Active Recombinant Human MMP9 protein(Met1-Asp707)

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

SPECIFICATION

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