

Recombinant Rat Mmp9 protein(Met1-Pro708), His-tagged

Cat. No. Mmp9-1195R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat MMP9 (EDL96479.1) (Met 1-Pro 708) was expressed in HEK293, fused with a polyhistidine tag at the C-terminus.
Species	Rat
Source	HEK293
ProteinLength	1-708 a.a.
Form	Lyophilized from sterile 50mM MES, 100mM NaCl, 1mM CaCl ₂ , 10% Glycerol, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Bio-activity	Measured by its ability to cleave a fluorogenic peptide substrate Mca-PLGL-Dpa-AR-NH ₂ . The specific activity is >1000 pmoles/min/μg.(Activation description: The proenzyme needs to be activated by APMA for an activated form).
Molecular Mass	The secreted recombinant rat MMP9 comprises 700 amino acids and predicts a molecular mass of 77.8 kDa. The apparent molecular mass of the rat MMP9 is approximately 100-110 kDa in SDS-PAGE under reducing conditions due to glycosylation.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method
Purity	> 95 % as determined by SDS-PAGE

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

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 \[Rattus norvegicus \]](#)

Official Symbol [Mmp9](#)

Synonyms MMP9; matrix metalloproteinase 9; matrix metalloproteinase-9; GELB; MMP-9; gelatinase B; 92 kDa gelatinase; 92 kDa type IV collagenase; 92-kDa type IV collagenase; matrix metalloproteinase 9 (gelatinase B 92-kDa type IV collagenase); matrix metalloproteinase 9 (gelatinase B, 92-kDa type IV collagenase);

Gene ID [81687](#)

mRNA Refseq [NM_031055](#)

Protein Refseq [NP_112317](#)

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