

# Biotinylated Recombinant Human MMP-9 Protein

Catalog No.: RP00646B **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	4318	P14780

### Tags

C-His&Avi

### Synonyms

MMP-9; GELB; CLG4B; MANDP2;  
Gelatinase B

## Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE > 95% by HPLC

Calculated MW	Observed MW
79.3 kDa	95-105 kDa

### Endotoxin

< 1 EU/μg of the protein by LAL method

### Formulation

Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact

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## Background

Matrix metalloproteinase 9 (MMP9) contributes to this process and deficiencies in the MMP9 lead to impaired healing. Inappropriate expression of MMP9 also contributes to impaired re-epithelialization. Previously we demonstrated that FOXO1 was activated in wound healing but to higher levels in diabetic wounds. To address mechanisms of impaired re-epithelialization we examined MMP9 expression in vivo in full thickness dermal scalp wounds created in experimental K14.

## Basic Information

### Description

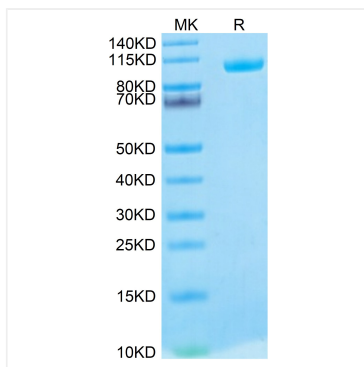
Biotinylated Recombinant Human MMP-9 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ala20-Asp707) of Human MMP-9 (Accession #P14780) fused with a C-His&Avi tag at the C-terminus.

### Bio-Activity

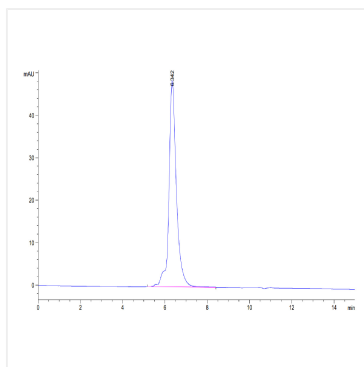
#### Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

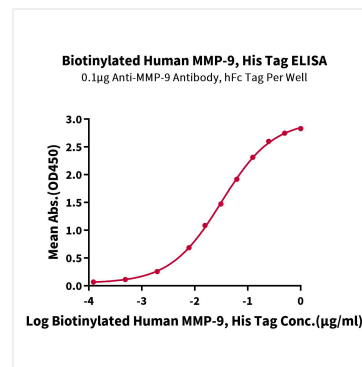
## Validation Data



Biotinylated Human MMP-9 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



The purity of Biotinylated Human MMP-9 is greater than 95% as determined by SEC-HPLC.



Immobilized Anti-MMP-9 Antibody, hFc Tag at 1 µg/mL (100 µL/well) on the plate. Dose response curve for Biotinylated Human MMP-9, His Tag with the EC<sub>50</sub> of 32.1ng/mL determined by ELISA.