

Non-biotinylated Human MMP-9 Protein (pro form)

Cat. No. MMP-HM409

Description

Source	Recombinant Human MMP-9 Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. The protein needs to be activated by APMA for an activated form. It contains Ala20-Asp707.
Accession	P14780
Molecular Weight	The protein has a predicted MW of 79.3 kDa. Due to glycosylation, the protein migrates to 90-110 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.1 EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

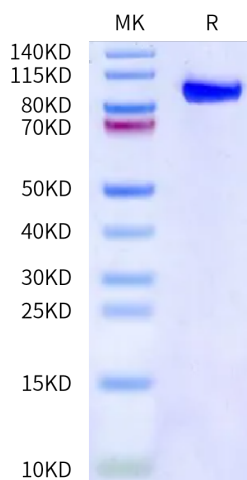
Formulation	Supplied as 0.22 μm filtered solution in 50mM Tris, 10mM CaCl ₂ , 150mM NaCl, 0.05% Brij-35 (w/v) (pH 7.5).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

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.

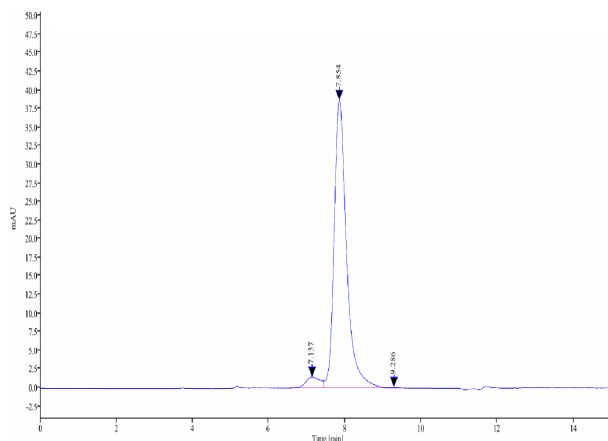
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



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

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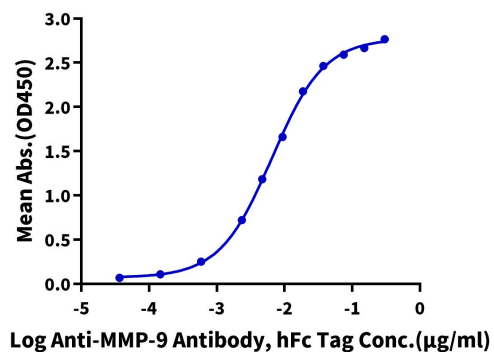
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Assay Data

ELISA Data

Human MMP-9, His Tag ELISA

0.1µg Human MMP-9, His Tag Per Well



Immobilized Human MMP-9, His Tag at 1µg/ml (100µl/Well) on the plate. Dose response curve for Anti-MMP-9 Antibody, hFc Tag with the EC50 of 6.5ng/ml determined by ELISA.

Bioactivity Data

Measured by its ability to cleave the fluorogenic peptide substrate, Mca-PLGL-Dpa-AR-NH2. The specific activity is > 800 pmol/min/µg.