

Biotinylated Human MMP-9 Protein



Cat. No. MMP-HM409B

Description

Source	Recombinant Biotinylated Human MMP-9 Protein is expressed from Expi293 with His tag and Avi tag at the C-terminal. 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 95-105 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

Formulation and Storage

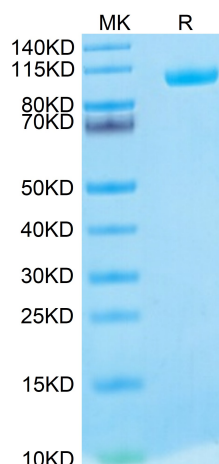
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 5% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge tubes before opening. Reconstituting to a concentration more than 100 µg/ml is recommended (usually we use 1mg/ml solution for lyophilization). Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please avoid 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

Tris-Bis PAGE



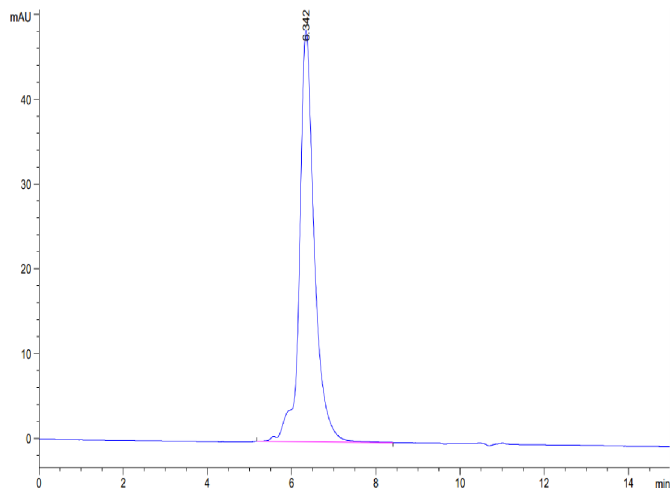
Biotinylated Human MMP-9 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

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Assay Data

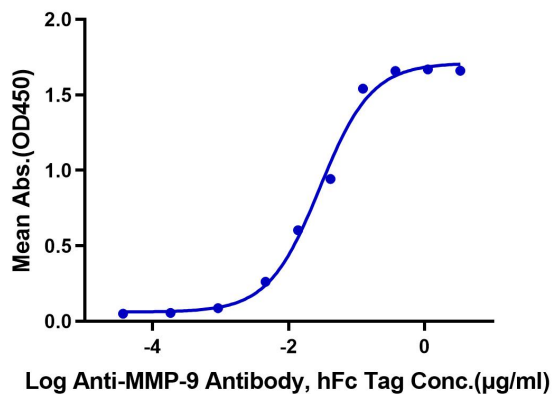


The purity of Biotinylated Human MMP-9 is greater than 95% as determined by SEC-HPLC.

ELISA Data

Biotinylated Human MMP-9, His Tag ELISA

0.05 μ g Biotinylated Human MMP-9, His Tag Per Well



Immobilized Biotinylated Human MMP-9, His Tag at 0.5 μ g/ml (100 μ l/Well) on the plate. Dose response curve for Anti-MMP-9 Antibody, hFc Tag with the EC50 of 28.8ng/ml determined by ELISA.