

Biotinylated Recombinant Human MMP-9 Protein

Catalog No.: RP00646B

Sequence Information

Species	Gene ID
Human	4318
Swiss Prot	Tags
P14780	C-His&Avi

Synonyms

MMP9, CLG4B, MMP-9, Matrix metalloproteinase-9

Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by SDS-PAGE; ≥ 95 % as determined by HPLC.

Calculated MWObserved 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.

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.

Activity

Shipping

Lyophilized proteins are shipped at ambient temperature. Liquid proteins are shipped at frozen temperature with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

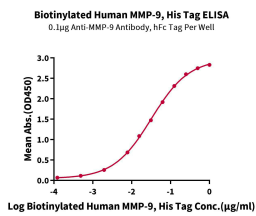
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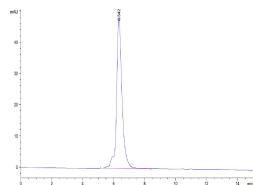
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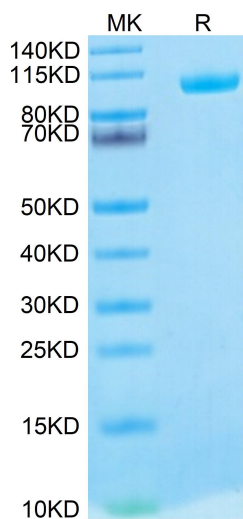
Validation Data



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 EC₅₀ of 32.1ng /mL determined by ELISA.



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



Biotinylated Recombinant Human MMP-9 Protein was determined by Tris-Bis PAGE under reducing conditions.