

# Cynomolgus MMP-9 Protein

Cat. No. MMP-CM109



## Description

<b>Source</b>	Recombinant Cynomolgus MMP-9 Protein is expressed from HEK293 with His tag at the C-Terminus. The protein needs to be activated by APMA to have hydrolytic activity. It contains Ala20-Asp706.
<b>Accession</b>	A0A2K5UU71
<b>Molecular Weight</b>	The protein has a predicted MW of 77.44 kDa. Due to glycosylation, the protein migrates to 85-100 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

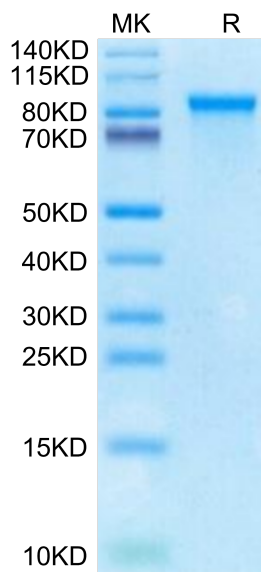
<b>Formulation</b>	Supplied as 0.22µm filtered solution in PBS (pH 7.4).
<b>Storage</b>	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## 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

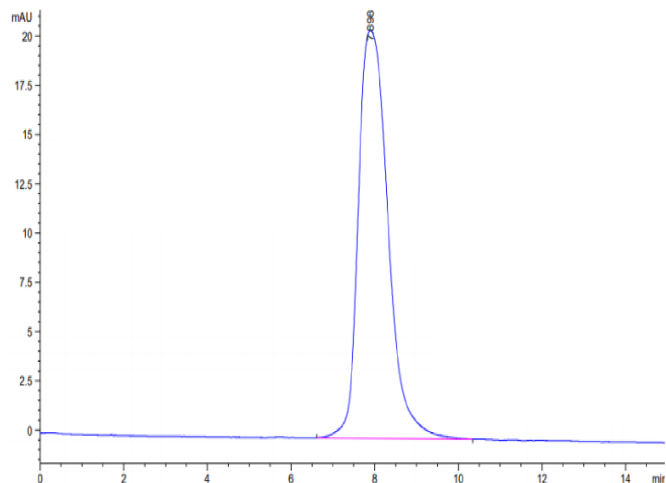
### Bis-Tris PAGE



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

### SEC-HPLC

Assay Data

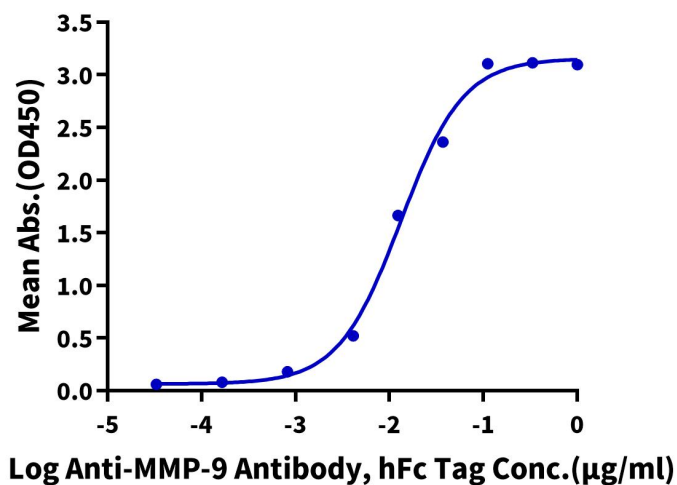


The purity of Cynomolgus MMP-9 is greater than 95% as determined by SEC-HPLC.

ELISA Data

**Cynomolgus MMP-9, His Tag ELISA**

0.05µg Cynomolgus MMP-9, His Tag Per Well



Immobilized Cynomolgus MMP-9, His Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Anti-MMP-9 Antibody, hFc Tag with the EC50 of 13.2ng/ml determined by ELISA.