

Datasheet for ABIN7275266

**MMP 9 Protein (AA 20-706) (His tag)****3** Images[Go to Product page](#)

## Overview

Quantity:	100 µg
Target:	MMP 9 (MMP9)
Protein Characteristics:	AA 20-706
Origin:	Cynomolgus
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MMP 9 protein is labelled with His tag.

## Product Details

Purpose:	Cynomolgus MMP-9 Protein
Sequence:	Ala20-Asp706
Characteristics:	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.
Purity:	> 95 % as determined by Tris-Bis PAGE, > 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	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 18.8ng/ml determined by ELISA. See testing image for detail.

## Target Details

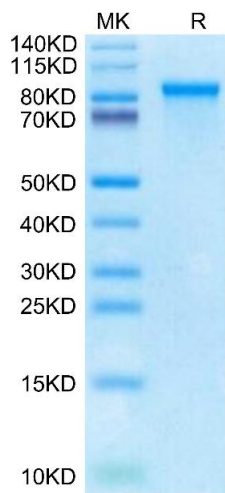
Target:	MMP 9 (MMP9)
Alternative Name:	MMP-9 ( <a href="#">MMP9 Products</a> )
Background:	Matrix metalloproteinase 9 (MMP9) contributes to this process and deficiencies in the MMP9 lead to impaired healing. Inappropriate expression of MMP9 also contributes to impaired re-epithelialization. Previously 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.
Molecular Weight:	77.44 kDa. Due to glycosylation, the protein migrates to 85-100 kDa based on Tris-Bis PAGE result.
UniProt:	<a href="#">A0A2K5UU71</a>
Pathways:	<a href="#">Cellular Response to Molecule of Bacterial Origin</a> , <a href="#">Positive Regulation of Immune Effector Process</a> , <a href="#">CXCR4-mediated Signaling Events</a>

## Application Details

Restrictions:	For Research Use only
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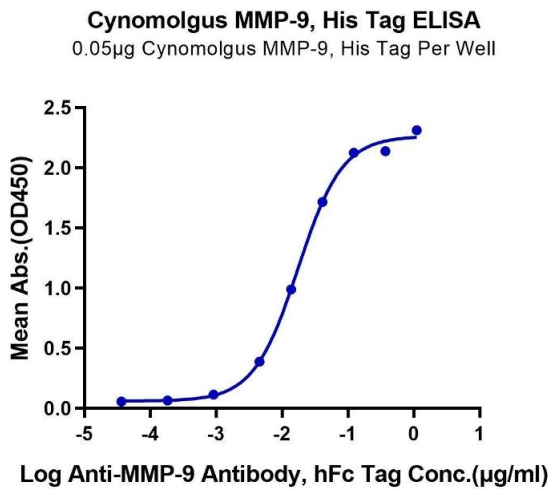
## Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS ( pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt.,-80°C for 3-6 months after reconstitution.,2-8°C for 2-7 days after reconstitution.,Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months



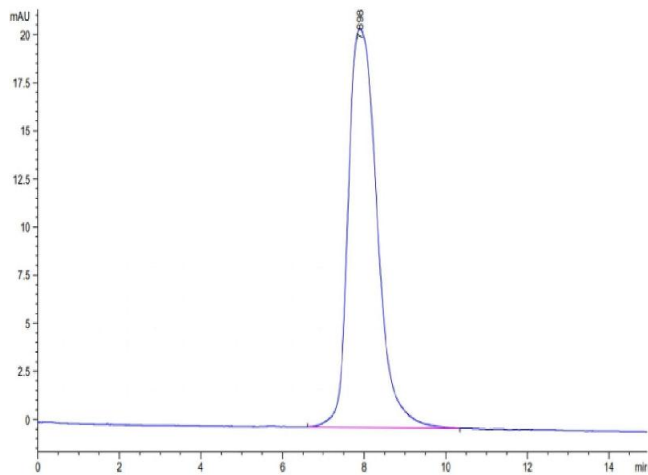
SDS-PAGE

**Image 1.** Cynomolgus MMP-9 on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .



ELISA

**Image 2.** Immobilized Cynomolgus MMP-9, His Tag at 0.5 µg/mL (100 µL/Well) on the plate. Dose response curve for Anti-MMP-9 Antibody, hFc Tag with the EC50 of 18.8 ng/mL determined by ELISA.



Size-exclusion chromatography-High Pressure Liquid Chromatography

**Image 3.** The purity of Cynomolgus MMP-9 is greater than 95 % as determined by SEC-HPLC.