

Datasheet for ABIN7275269

**MMP8 Protein (AA 21-467) (His tag)****4** Images[Go to Product page](#)

## Overview

Quantity:	100 µg
Target:	MMP8
Protein Characteristics:	AA 21-467
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MMP8 protein is labelled with His tag.

## Product Details

Purpose:	Human MMP-8 Protein
Sequence:	Phe21-Gly467
Characteristics:	Recombinant Human MMP-8 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 Phe21-Gly467.
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 Human MMP-8, His Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Anti-MMP-8 Antibody, hFc Tag with the EC50 of 3.5µg/ml determined by ELISA. The affinity constant of 1.14 µM as determined in SPR assay (Biacore T200). See testing image for detail.

## Target Details

Target:	MMP8
Alternative Name:	MMP-8 ( <a href="#">MMP8 Products</a> )
Background:	Alteration of matrix metalloproteinases (MMPs) and tissue inhibitors of metalloproteinases (TIMPs) expression has been studied for various cardiac diseases, including dilated cardiomyopathy (DCM), with the significance of surrogate markers of extracellular matrix (ECM) remodeling. MMP-8 was identified only in myocytes, while MMP-9 and TIMP-2 were present in both myocytes and stroma, but with different intensity. The increasing intensity of MMP-8 and TIMP-2 immunoreactions was significantly associated with low HCS.
Molecular Weight:	52.2 kDa. Due to glycosylation, the protein migrates to 65-70 kDa based on Tris-Bis PAGE result.
UniProt:	<a href="#">P22894</a>

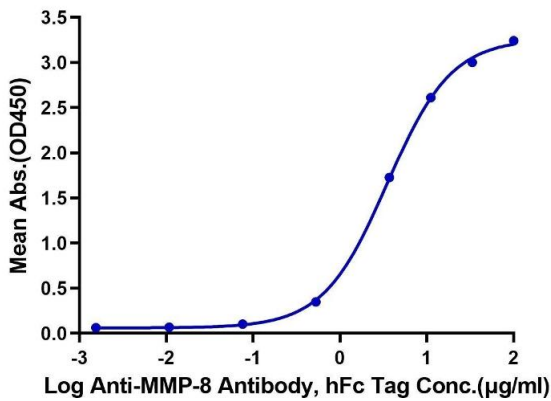
## Application Details

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 50 mM Tris, 10 mM CaCl <sub>2</sub> , 150 mM NaCl ( pH 7.5). 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

**Human MMP-8, His Tag ELISA**  
0.5µg Human MMP-8, His Tag Per Well

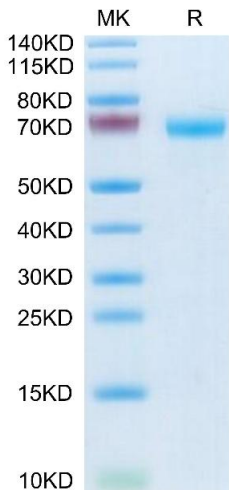
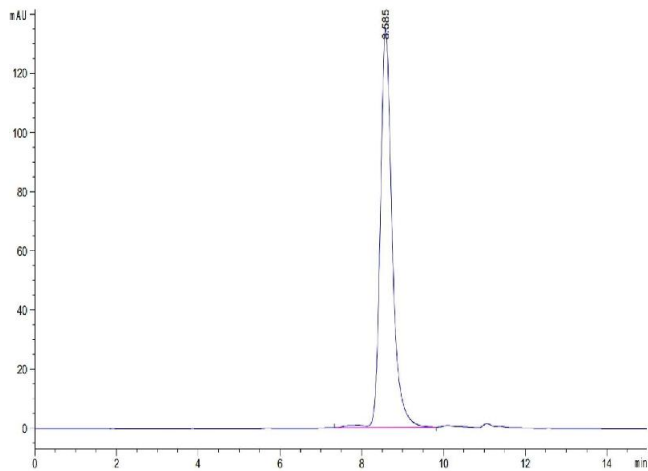


### ELISA

**Image 1.** Immobilized Human MMP-8, His Tag at 5 µg/mL (100 µL/well) on the plate. Dose response curve for Anti-MMP-8 Antibody, hFc Tag with the EC<sub>50</sub> of 3.5 µg/mL determined by ELISA.

### Size-exclusion chromatography-High Pressure Liquid Chromatography

**Image 2.** The purity of Human MMP-8 is greater than 95 % as determined by SEC-HPLC.



### SDS-PAGE

**Image 3.** Human MMP-8 on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN7275269.