

For Research Use Only

# Recombinant Human MMP10 protein (rFc Tag)



Catalog Number: Eg3038

## Basic Information

**Species:**  
Human

**Purity:**  
>90 %, SDS-PAGE

**Tag:**  
rFc Tag

## Technical Specifications

**Purity:**

>90 %, SDS-PAGE

**Endotoxin Level:**

<0.1 EU/  $\mu$ g protein, LAL method

**Source:**

HEK293-derived Human MMP10 protein Tyr18-Cys476 (Accession# P09238) with a rabbit IgG Fc tag at the C-terminus.

**GeneID:**

4319

**Accession:**

P09238

**Predicted Molecular Mass:**

77.9 kDa

**SDS-PAGE:**

27-28 kDa and 75-90 kDa, reducing (R) conditions

**Formulation:**

Lyophilized from 0.22  $\mu$ m filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

## Biological Activity

Not tested

## Storage and Shipping

**Storage:**

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

**Shipping:**

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

## Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

## Background

MMP10, also known as matrix metalloproteinase 10, is a key member of the zinc-dependent endopeptidase family. It is primarily secreted by macrophages, fibroblasts, and other cells into the extracellular matrix and is activated in response to signals such as inflammation and tissue injury. Its core function is to degrade various extracellular matrix proteins and modulate the activity of inflammatory factors and growth factors. Consequently, MMP10 plays a crucial role in tissue remodeling, wound healing, and inflammatory responses. Simultaneously, due to its ability to disrupt the basement membrane and promote cell migration, it is also a central driver of tumor invasion and metastasis. Moreover, it is closely linked to the pathological processes of chronic diseases such as rheumatoid arthritis and atherosclerosis, making it an important therapeutic target and prognostic biomarker.

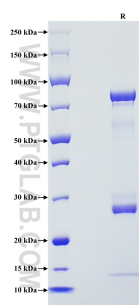
## References

1. Chang, Ling et al. International immunopharmacology vol. 124, Pt B (2023): 111045. 2. Dharavath, Bhasker et al. C

## Synonyms

EC:3.4.24.22, Matrix metalloproteinase 10, Matrix metalloproteinase-10, MMP 10, MMP-10

## Selected Validation Data



Purity of Recombinant Human MMP10 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

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