



## Synonym

MMP7,Matrilysin,Matrin,MPSL1,PUMP1

## Source

Human MMP-7, His Tag (MM7-H5249) is expressed from human 293 cells (HEK293). It contains AA Leu 18 - Lys 267 (Accession # [P09237-1](#)). It needs to be activated by agents such as APMA in vitro to have hydrolytic activity.

Predicted N-terminus: Leu 18

## Molecular Characterization

Poly-his MMP-7(Leu 18 - Lys 267)  
P09237-1

This protein carries a polyhistidine tag at the N-terminus.

The protein has a calculated MW of 29.7 kDa. The protein migrates as 30 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Endotoxin

Less than 1.0 EU per µg by the LAL method.

## Purity

>90% as determined by SDS-PAGE.

## Formulation

Supplied as 0.2 µm filtered solution in 10 mM HEPES, 150 mM NaCl, pH7.5 with glycerol as protectant.

Contact us for customized product form or formulation.

## Shipping

*This product is supplied and shipped with dry ice, please inquire the shipping cost.*

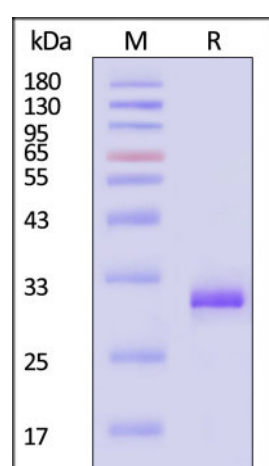
## Storage

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- The product MUST be stored at -70°C or lower upon receipt;
- -70°C for 3 months under sterile conditions.

## SDS-PAGE

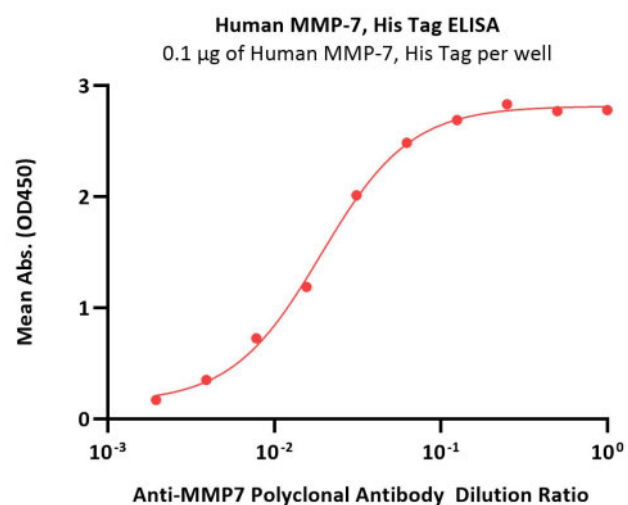


Human MMP-7, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

## Bioactivity-ELISA

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Immobilized Human MMP-7, His Tag (Cat. No. MM7-H5249) at 1 µg/mL (100 µL/well) can bind various dilution ratio of Anti-MMP7 Polyclonal Antibody (Routinely tested).

## Bioactivity

Measured by its ability to cleave the fluorogenic peptide substrate Mca-PLGL-Dpa-AR-NH<sub>2</sub>. The specific activity is >600 pmol/min/µg (QC tested).

## Background

Matrix metalloproteinase-7 (MMP-7) also known as neutrophil collagenase and CLG1, is a member of matrix metalloproteinases (MMPs) family, which degrade components of the extracellular matrix (ECM) and play essential roles in various physiological processes as well as pathological processes. MMP-7 may affect the metastatic behavior of breast cancer cells through protection against lymph node metastasis, underlining the importance of anti-target identification in drug development. MMP-7 in the tumor may have a protective effect against lymph node metastasis.

## Clinical and Translational Updates

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.

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