

**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
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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 μ g by the LAL method / rFC method.

Purity

>90% as determined by SDS-PAGE.

Formulation

Supplied as 0.2 μ m filtered solution in 10 mM HEPES, 150 mM NaCl, pH 7.5 with glycerol as protectant.

Contact us for customized product form or formulation.

Shipping

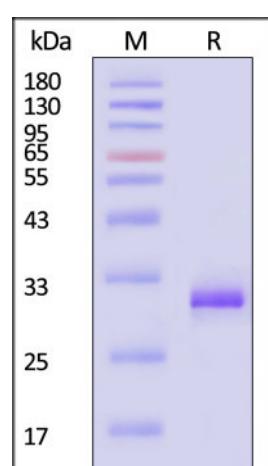
This product is supplied and shipped with dry ice, please inquire the shipping cost.

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

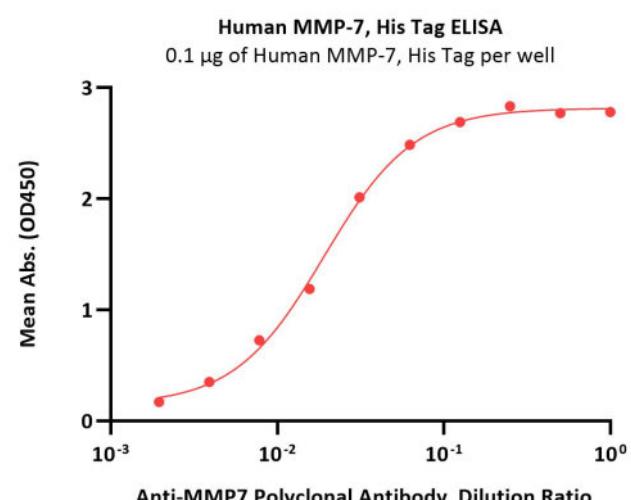
Human MMP-7, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

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-NH₂. 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.

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