

Human MMP-8 Protein, His Tag (active enzyme)

Catalog # MM8-H52H7



Synonym

CLG1 Protein, HNC Protein, MMP-8 Protein, PMNL-CL Protein,

Source

Human MMP-8 Protein, His Tag (MM8-H52H7) is expressed from human 293 cells (HEK293). It contains AA Phe 21 - Gly 262 (Accession # [P22894-1](#)). It needs to be activated by agents such as APMA in vitro to have hydrolytic activity.
Predicted N-terminus: Phe 21

Molecular Characterization

MMP-8(Phe 21 - Gly 262)
P22894-1

Poly-his

This protein carries a polyhistidine tag at the C-terminus.
The protein has a calculated MW of 29.0 kDa. The protein migrates as 38-55 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 / rFC method.

Purity

>90% as determined by SDS-PAGE.

Formulation

Supplied as 0.2 µm filtered solution in 50 mM Tris,150 mM NaCl,pH8.0 with trehalose as protectant.
Contact us for customized product form or formulation.

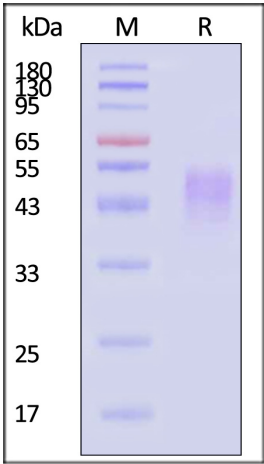
Shipping

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



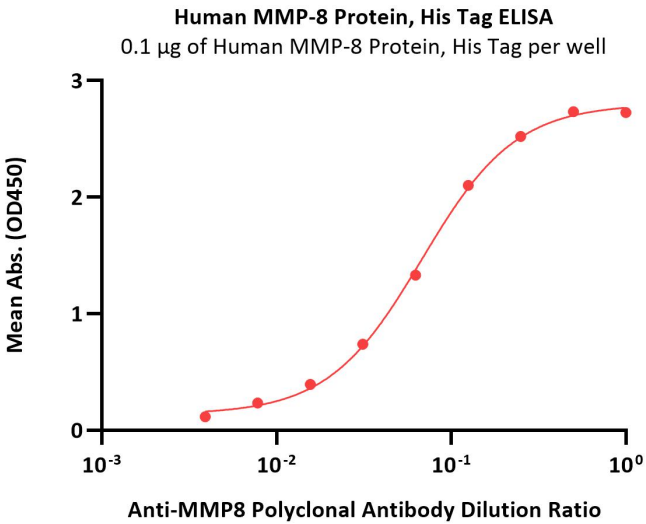
Human MMP-8 Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

Bioactivity-ELISA



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Immobilized Human MMP-8 Protein, His Tag (Cat. No. MM8-H52H7) at 1 µg/mL (100 µL/well) can bind various dilution ratio of Anti-MMP8 Polyclonal Antibody (Routinely tested).

Bioactivity

Measured by its ability to cleave the fluorogenic peptide substrate, Mca-PLGL-Dpa-AR-NH2. The specific activity is >300 pmol/min/µg (QC tested).

Background

Matrix metalloproteinase-8 (MMP-8) 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-8 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-8 in the tumor may have a protective effect against lymph node metastasis.

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and more!

