

Human MMP-10 Protein, Tag Free (active enzyme)

Catalog # MM0-H5214



BIOSYSTEMS
Acro

Synonyms

SL-2, STMY2

Source

Human MMP-10 Protein, Tag Free (MM0-H5214) is expressed from human 293 cells (HEK293). It contains AA Tyr 18 - Cys 476 (Accession # [P09238](#)).

Predicted N-terminus: Tyr 18

Molecular Characterization

MMP-10(Tyr 18 - Cys 476)
P09238

This protein carries no "tag".

The protein has a calculated MW of 52.3 kDa. The protein migrates as 24-25 kDa, 43-46 kDa and 55-60 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

>85% as determined by SDS-PAGE.

Formulation

Supplied as 0.2 µm filtered solution in 50 mM Tris, 150 mM NaCl, pH7.5 with glycerol as protectant.

Contact us for customized product form or formulation.

Shipping and Storage

This product is supplied and shipped on dry ice.

Please avoid repeated freeze-thaw cycles.

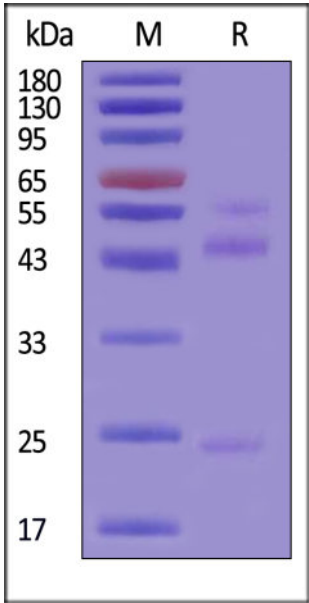
This product is stable after storage at:

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

ACRO Quality Management System

- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



Human MMP-10 Protein, Tag Free on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 85% (With [Star Ribbon Pre-stained Protein Marker](#)).

Bioactivity

Measured by its ability to cleave the fluorogenic peptide substrate, Mca-RPKPVE-Nval-WRK(Dnp)-NH2. The specific activity is >250 pmol/min/μg (QC tested).

Background

MMP-12 (macrophage elastase) is a metalloendopeptidase predominantly produced by activated macrophages. It degrades elastin and other extracellular matrix components, shaping tissue remodeling and inflammatory responses. MMP-12 is strongly implicated in chronic inflammation, COPD, and tumor microenvironment regulation, making it a relevant biomarker and therapeutic target.



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