

## Active Recombinant Human full length MMP1 protein, His-tagged, Low Endotoxin

Cat. No. MMP1-126H    Lot. No. (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                               |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Active Recombinant Human full length MMP1 protein(NP_002412.1)(20-469 aa), fused with a His tag at the C-terminus, was expressed in HEK293.                                                                                                                                   |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                         |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                        |
| <b>ProteinLength</b>    | 20-469 aa                                                                                                                                                                                                                                                                     |
| <b>Form</b>             | Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.                                                                                                                                                                                                                  |
| <b>Bio-activity</b>     | 1.Measured in a cell migration assay using A549 cells. 1 ng/mL of Recombinant Human MMP-1 can effectively induce A549 cells migration. 2.Measured by its ability to cleave the fluorogenic peptide substrate, Mca-PLGL-Dpa-AR-NH2. The specific activity is >997 pmol/min/µg. |
| <b>Molecular Mass</b>   | 51.84 kDa                                                                                                                                                                                                                                                                     |
| <b>Endotoxin</b>        | < 0.1 EU/µg of the protein by LAL method.                                                                                                                                                                                                                                     |
| <b>Purity</b>           | ≥ 95 % as determined by SDS-PAGE.                                                                                                                                                                                                                                             |
| <b>Storage</b>          | Store at -20°C. Store the lyophilized protein at -20°C to -80°C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3                                                                                                    |

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months, at 2-8°C for up to 1 week.

**Reconstitution**

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

**protein Refseq-Weblink**

[http://www.ncbi.nlm.nih.gov/protein/NP\\_001139410.1](http://www.ncbi.nlm.nih.gov/protein/NP_001139410.1)

**Unit ID**

P03956

**Unit ID-Weblink**

<https://www.uniprot.org/uniprot/P03956>

## GENE INFORMATION

**Gene Name**

**MMP1** matrix metallopeptidase 1 (interstitial collagenase) [ Homo sapiens ]

**Official Symbol**

**MMP1**

**Synonyms**

MMP1; matrix metallopeptidase 1 (interstitial collagenase); CLG, matrix metalloproteinase 1 (interstitial collagenase); interstitial collagenase; fibroblast collagenase; matrix metalloprotease 1; matrix metalloproteinase 1; CLG; CLGN;

**Gene ID**

**4312**

**mRNA Refseq**

**NM\_001145938**

**protein Refseq**

**NP\_001139410**

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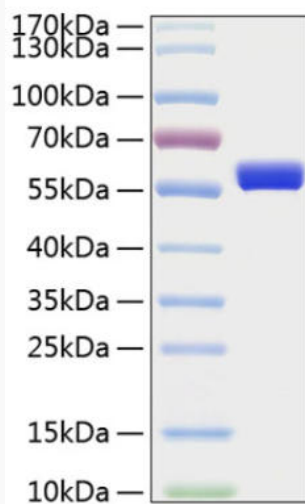
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SDS-PAGE



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