

**Catalog No.: RP01969** **Recombinant**

Species	Gene ID	Swiss Prot
Human	4319	P09238

## C-6His

MMP10; STMY2; Stromelysin-2; SL-2;  
EC:3.4.24.22; Matrix  
metalloproteinase-10; MMP-10; Transin-2

<b>Source</b>	<b>Purification</b>
HEK293 cells	≥ 95 % as determined by SDS-PAGE

Calculated MW	Observed MW
53.1 KDa	45-60.60-65 kDa

< 0.01 EU/μg of the protein by LAL method

Lyophilized from a 0.2  $\mu$ m filtered solution of 150 mM NaCl, 5 mM CaCl<sub>2</sub>, 50 mM Tris, pH 7.5.

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.

 | 400-999-6126

 | [cn.market@abclonal.com.cn](mailto:cn.market@abclonal.com.cn)

 | [www.abclonal.com.cn](http://www.abclonal.com.cn)

Matrix metalloproteinases are a family of zinc and calcium dependent endopeptidases with the combined ability to degrade all the components of the extracellular matrix. MMP-10 degrades a broad range of substrates including gelatin, collagen types III, IV and V, fibronectin, aggrecan, and pig cartilage proteoglycan. MMP-10 can activate other MMPs such as MMP-1 and MMP-8. MMP-10 is expressed in keratinocytes, T cells, menstrual endometrium and a few tumor samples. Structurally, MMP-10 may be divided into four distinct domains: a pro-domain which is cleaved upon activation, a catalytic domain containing the zinc binding site; a short linker region, and a carboxyl terminal hemopexin-like domain.

Recombinant Human MMP-10 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Tyr18-Cys476) of Human MMP-10 (Accession #NP\_002416.1) fused with His at the C-terminus.

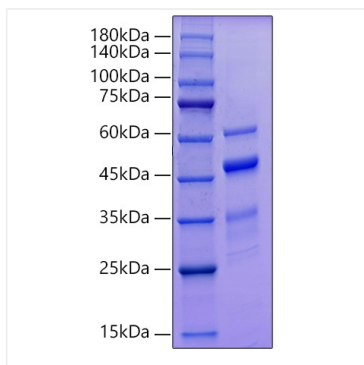
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

## Validation Data

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Recombinant Human MMP-10 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.