

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

Source	Purification
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 μ m filtered solution of 150 mM NaCl, 5 mM CaCl₂, 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 freeze-thaw cycles.

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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.

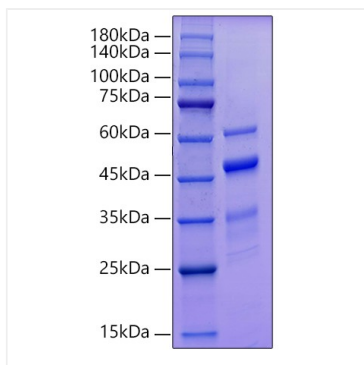
Measured by its ability to cleave the fluorogenic peptide substrate, Mca-RPKVE-Nval-WRK(Dnp)-NH2 (Catalog # ES002). The specific activity is >457 pmol/min/μg, as measured under the described conditions.

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

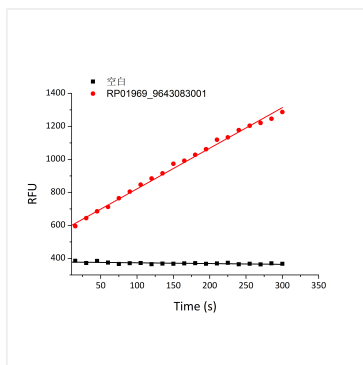
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.
Avoid repeated freeze/thaw cycles.

For your safety and health, please wear a lab coat and disposable gloves for handling.

Validation Data



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



Measured by its ability to cleave the fluorogenic peptide substrate, Mca-RPKPVE-Nval-WRK(Dnp)-NH₂ (Catalog # ES002). The specific activity is >457 pmol/min/μg, as measured under the described conditions.