

Recombinant Human MMP-8 Protein

Catalog No.: RP02626 **Recombinant**

Sequence Information

Species Human **Gene ID** 4317 **Swiss Prot** P22894

Tags

C-His

Synonyms

MMP-8; PMNL-CL; CLG1; MMP8;
Collagenase 2; PMNL-CL; HNC

Background

Alteration of matrix metalloproteinases (MMPs) and tissue inhibitors of metalloproteinases (TIMPs) expression has been studied for various cardiac diseases, including dilated cardiomyopathy (DCM), with the significance of surrogate markers of extracellular matrix (ECM) remodeling. MMP-8 was identified only in myocardiocytes, while MMP-9 and TIMP-2 were present in both myocardiocytes and stroma, but with different intensity. The increasing intensity of MMP-8 and TIMP-2 immunoreactions was significantly associated with low HCS.

Basic Information

Description

Recombinant Human MMP-8 Protein is expressed from Expi293 with His tag at the C-terminal. It contains Phe21-Gly467.

Bio-Activity

Recombinant Human MMP-8 Protein cleave the fluorogenic peptide substrate, Mc-PLGL-Dpa-AR-NH2 (RD,Catalog # ES001). The specific activity is >194 pmol/min/μg, as measured under the described conditions.

Shipping

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

Storage

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.

Operational Notes

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

Product Information

Source

HEK293 cells

Purification

≥ 95 % as determined by Tris-Bis PAGE; ≥ 95 % as determined by HPLC.

Calculated MW

51.97 kDa

Observed MW

60-75 kDa

Endotoxin

< 0.01 EU/μg of the protein by LAL method

Formulation

Lyophilized from a 0.2 μm filtered solution of 50mM Tris , 10 mM CaCl₂ 150 mM NaCl, pH 7.5. Contact us for customized product form or formulation.

Reconstitution

Centrifuge the tube 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.

Contact

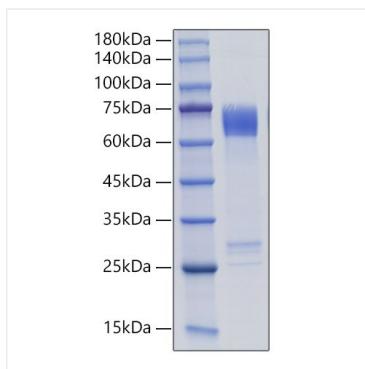


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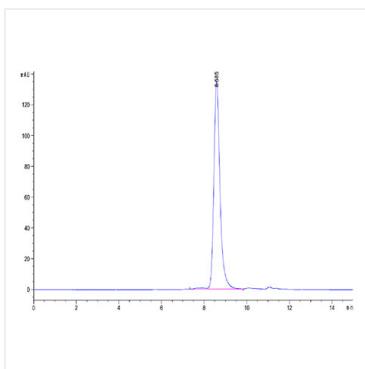
✉ | cn.market@abclonal.com.cn

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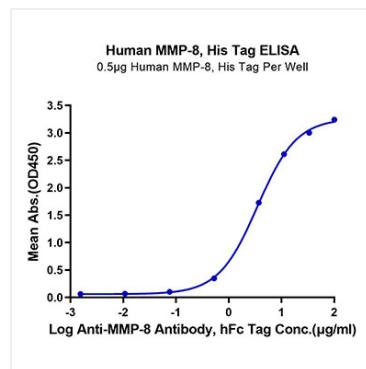
Validation Data



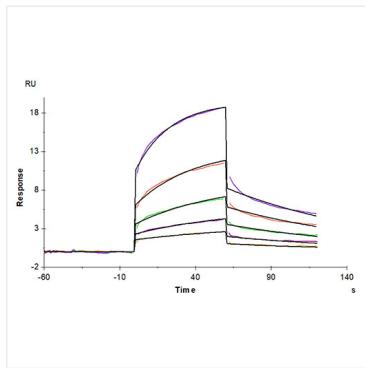
Recombinant Human MMP-8 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



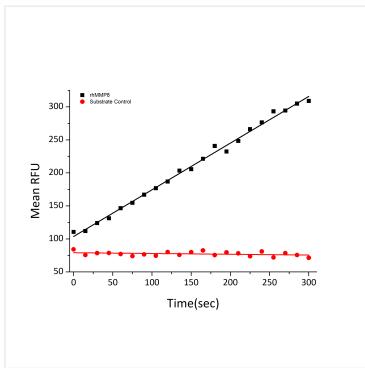
The purity of Human MMP-8 is greater than 95% as determined by SEC-HPLC.



Immobilized Human MMP-8, His Tag at 5 µg/ml (100 µl/well) on the plate. Dose response curve for Anti-MMP-8 Antibody, hFc Tag with the EC₅₀ of 3.5 µg/ml determined by ELISA.



Anti-MMP-8 Antibody captured on CM5 Chip via Protein A can bind Human MMP-8, His Tag with an affinity constant of 1.14 µM as determined in SPR assay (Biacore T200).



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