

Recombinant Human MMP-8 Protein

Catalog No.: RP02626 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	4317	P22894

Tags

C-His

Synonyms

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

Product Information

Source	Purification
HEK293 cells	> 95% as determined by Tris-Bis PAGE

Calculated MW	Observed MW
51.97 kDa	60-75 kDa

Endotoxin

<0.01EU/μg by the 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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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 myocytes, while MMP-9 and TIMP-2 were present in both myocytes 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, Mca-PLGL-Dpa-AR-NH₂ (RD,Catalog # ES001). The specific activity is >194 pmol/min/μg, as measured under the described conditions.

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.

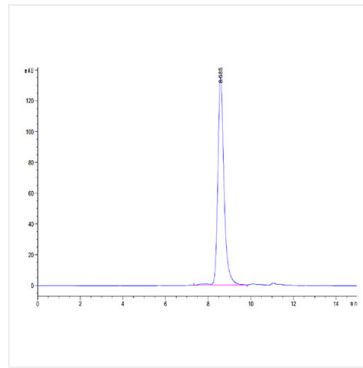


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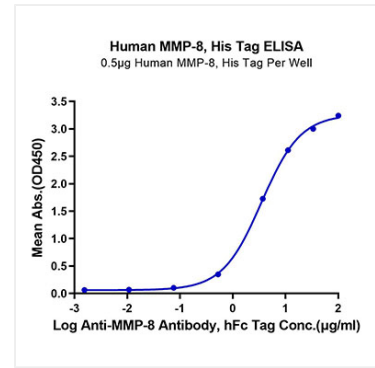
Validation Data



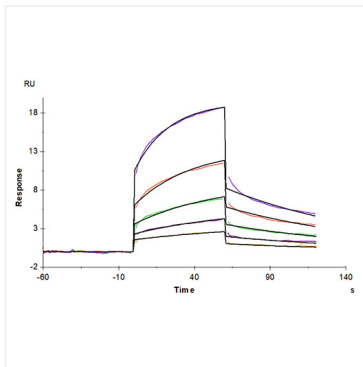
Recombinant Human MMP-8 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 60-75kDa.



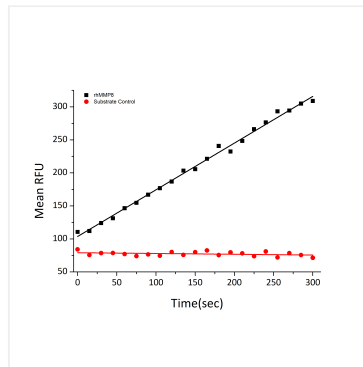
The purity of Human MMP-8 is greater than 95% as determined by SEC-HPLC.



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