Recombinant Human MMP-8 Protein

Catalog No.: RP02626

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

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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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.

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.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

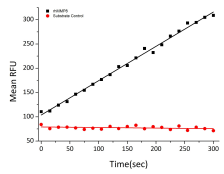
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

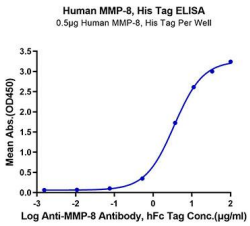
400-999-6126
cn.market@abclonal.com.cn
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Please visit http://abclonal.com for a complete listing of recommended products.

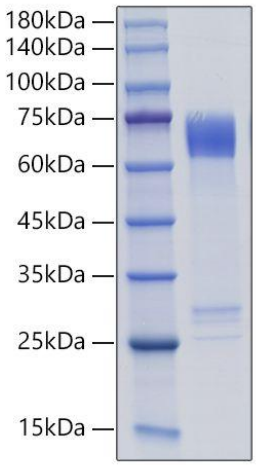
Validation Data



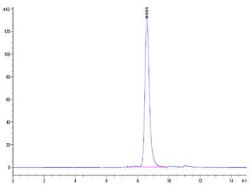
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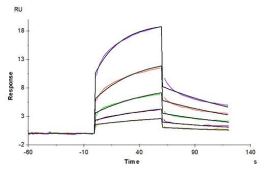
Immobilized Human MMP-8, His Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Anti-MMP-8 Antibody, hFc Tag with the EC_{50} of 3.5µg/ml determined by ELISA.



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.



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).