

Mouse MMP-8 Protein (active form)



Cat. No. MMP-MM108

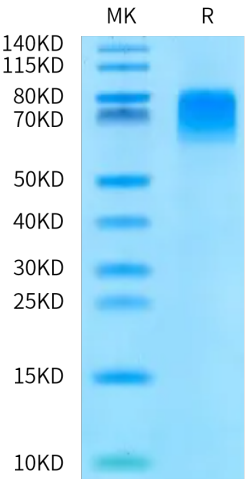
Description	
Source	Recombinant Mouse MMP-8 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Phe21-Ser465.
Accession	O70138
Molecular Weight	The protein has a predicted MW of 51.9 kDa. Due to glycosylation, the protein migrates to 65-80 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage	
Formulation	Lyophilized from 0.22 µm filtered solution in 20mM MES, 150mM NaCl (pH 5.5). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in 20mM MES (pH 5.5). Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-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 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.	

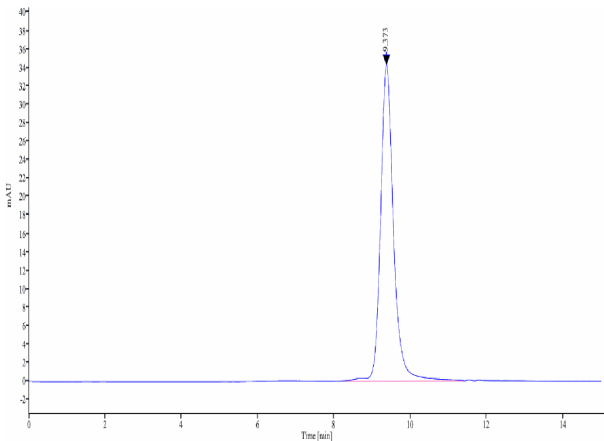
Assay Data

Bis-Tris PAGE



Mouse MMP-8 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



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

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Assay Data

Bioactivity Data

Measured by its ability to cleave the fluorogenic peptide substrate, Mca-PLGL-Dpa-AR-NH₂. The specific activity is > 400 pmoles/min/μg.