

Active Recombinant Human MMP9 protein, His-tagged

Cat. No. MMP9-812H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human MMP9 protein(AAH06093.1)(20-469 aa), fused with C-terminal His tag, was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	20-469 aa
Form	Liquid in sterile 25mM Tris, 150mM NaCl, 20% glycerol, pH7.5, with 10% trehalose.
Bio-activity	Measured by its ability to cleave the fluorogenic peptide substrate, Mca-PLGL-Dpa-AR-NH ₂ , (AnaSpec, Cat#27076). The specific activity is >3,000 pmoles/min/μg. (Activation description: The proenzyme needs to be activated by APMA for an activated form).
Molecular Mass	The protein has a calculated MW of 50.8 kDa. The protein migrates as 65 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Purity	>95% as determined by SDS-PAGE; >90% as determined by SEC-MALS.
Storage	Store it under sterile conditions at -70°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

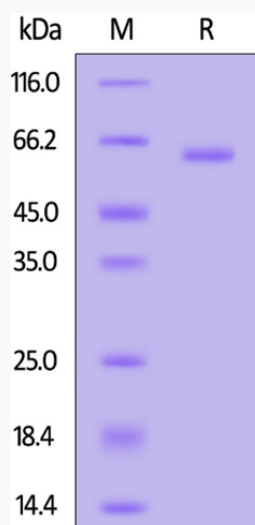
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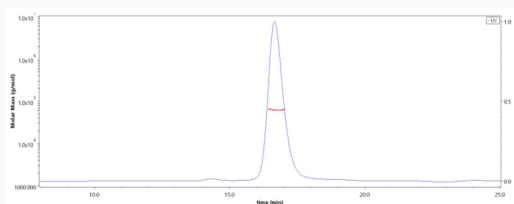
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Concentration	580 µg/ml. Centrifuge the vial at 4°C before opening to recover the entire contents.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.
GENE INFORMATION	
Gene Name	MMP9 matrix metalloproteinase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase) [Homo sapiens]
Official Symbol	MMP9
Synonyms	MMP9; matrix metalloproteinase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase); CLG4B, matrix metalloproteinase 9 (gelatinase B, 92kD gelatinase, 92kD type IV collagenase) , matrix metalloproteinase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase); matrix metalloproteinase-9; 92 kDa gelatinase; type V collagenase; macrophage gelatinase; 92 kDa type IV collagenase; matrix metalloproteinase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase); GELB; CLG4B; MMP-9; MANDP2;
Gene ID	4318
mRNA Refseq	NM_004994
Protein Refseq	NP_004985
MIM	120361
UniProt ID	P14780

SDS-PAGE



SEC-MALS



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