

Active Recombinant Mouse Mmp9 protein, His-tagged

Cat. No. Mmp9-1132M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Mouse Mmp9 protein(P41245)(225~390 aa), fused with N-terminal His tag, was expressed in HEK293.
Species	Mouse
Source	HEK293
ProteinLength	225-390 aa
Form	Lyophilized from sterile PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	Mechanism:MMP9 is a zinc-dependent enzymes capable of cleaving components of the extracellular matrix, which belongs to the matrix metalloproteinase (MMP) family . It is a gelatinase A, 92 kDa type IV collagenase which can hydrolyze gelatin under certain conditions. Gelatin zymography is mainly used for the detection of the gelatinases, MMP-2 and MMP-9 and It is extremely sensitive because levels of 10 pg of MMP-2 can already be detected .Brieflyvarious concentrations of recombinant mouse MMP9 (100ng, 50ng, 25ng, 12.5ng, 6.25ng, 3.1ng, 1.5ng and 0.7ng) were denatured by SDS loading buffer, electrophoresed through sodium dodecylsulphate–polyacrylamide gel (SDS–PAGE; 15% gels) containing gelatin (1 mg/ml) with nonreducing conditions. After renaturation, incubation and CCB-stained, active MMP9 would hydrolyze gelatin nearby, which was indicated by the white binds on the gel. In this experiment we use trypsin as positive control.

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Molecular Mass	19.9kDa
Endotoxin	<1.0EU per 1µg (determined by the LAL method).
Purity	> 90% as determined by SDS-PAGE.
Storage	Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	Mmp9 matrix metalloproteinase 9 [Mus musculus]
Official Symbol	Mmp9
Synonyms	MMP9; matrix metalloproteinase 9; matrix metalloproteinase-9; GELB; Gel B; gelatinase B; 92kD gelatinase; 92kDa gelatinase; 92 kDa gelatinase; collagenase type IVB; 92kD type IV collagenase; 92kDa type IV collagenase; 92 kDa type IV collagenase; matrix metalloproteinase 9; Clg4b; MMP-9; B/MMP9; AW743869; pro-MMP-9;
Gene ID	17395
mRNA Refseq	NM_013599
Protein Refseq	NP_038627

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