

Recombinant Active Rat MMP9 Protein, His-tagged(C-ter)

Cat. No. Mmp9-243R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Active Rat MMP9 Protein with His tag (C-ter) was expressed in HEK293.
Species	Rat
Source	HEK293
ProteinLength	Leu35-Pro708
Description	Proteins of the matrix metalloproteinase (MMP) family are involved in the breakdown of extracellular matrix in normal physiological processes, such as embryonic development, reproduction, and tissue remodeling, as well as in disease processes, such as arthritis and metastasis. Most MMP's are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. The enzyme encoded by this gene degrades type IV and V collagens. Studies in rhesus monkeys suggest that the enzyme is involved in IL-8-induced mobilization of hematopoietic progenitor cells from bone marrow, and murine studies suggest a role in tumor-associated tissue remodeling. [provided by RefSeq, Jul 2008]
Form	Powder
Bio-activity	Measured in a cell migration assay using HeLa cells. 1 ng/mL of Recombinant Rat MMP-9 can effectively induce HeLa cells migration.
Endotoxin	Endotoxin level is less than 0.1 EU/μg of the protein, as determined by the LAL test.

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Purity	> 95% (by SDS-PAGE)
Applications	FuncSt, SDS-PAGE
Notes	For laboratory research only, not for drug, diagnostic or other use.
Storage	Lyophilized protein should be stored at -20°C or -80°C. After reconstitution, aliquot and store at -20°C for up to one month, at 2-8°C for up to one week. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening.
Storage Buffer	50 mM Tris (pH 7.5), 10 mM CaCl ₂ and 150 mM NaCl.
Reconstitution	Reconstitute to a concentration of 0.1-0.5 mg/ml in sterile distilled water.
GENE INFORMATION	
Gene Name	Mmp9 matrix metalloproteinase 9 [Rattus norvegicus]
Official Symbol	Mmp9
Synonyms	MMP9; matrix metalloproteinase 9; matrix metalloproteinase-9; GELB; MMP-9; gelatinase B; 92 kDa gelatinase; 92 kDa type IV collagenase; 92-kDa type IV collagenase; matrix metalloproteinase 9 (gelatinase B 92-kDa type IV collagenase); matrix metalloproteinase 9 (gelatinase B, 92-kDa type IV collagenase);
Gene ID	81687
mRNA Refseq	NM_031055
Protein Refseq	NP_112317

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SDS-PAGE



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