



# Recombinant Rat Matrix metalloproteinase-9 (Mmp9)

<b>Product Code</b>	CSB-EP014679RA
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P50282
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	FQT FDGDLKWHHH NITYWIQSYT EDLPRDVIDD SFARAFVWS AVTPLTFTRV YGLEADIVIQ FGVAEHGDGY PFDGKDGLLA HAFPPGPGIQ GDAHFDDDEL WSLGKGAVVP TYFGNANGAP CHFPTFEGR SYLSCTTDGR NDGKPWCGTT ADYDTRKYG FCPSENLYTE HGNGDGKPCV PPFIFEGHSY SACTTKGRSD GYRWCATTAN YDQDKADGFC PTRADVTVTG GNSAGEMCVF PFVFLGKQYS TCTSEGRSDG RLWCATTSNF DADKKWGFCEP DQGYSLFLVA AHEFGHALGL DHSSVPEALM YPMYHYHEDS PLHEDDIKGI HHLYGRGSKP DPRPPATTA EPQPTAPPTM CSTAPPMAYP TGGPTVAPTG APSPGPTGPP TAGPSEAPTE SSTPDDNPCN VDFVDAIADI QGALHFFKDG RYWKFSNHGG NQLQGPFLIA RTWPAFPSKL NSAFEDPQPK KIFFFLWAQM WVYTGQSVLG PRSLDKLGLG SEVTLVTGLL PRRGGKALLI SRERIWKFDL KSQKVDPQSV TRLDNEFSGV PWNSHNVFQY QDKAYFCHDK YFWRVVSFHNR VNQVDHVAYV TYDLLQCP
<b>Source</b>	E.coli
<b>Target Names</b>	Mmp9
<b>Protein Names</b>	Recommended name: Matrix metalloproteinase-9 Short name= MMP-9 EC= 3.4.24.35 Alternative name(s): 92 kDa gelatinase 92 kDa type IV collagenase Gelatinase B Short name= GELB
<b>Expression Region</b>	108-708
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	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.

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**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.