

Recombinant Mouse matrix metalloproteinase 9 Protein, Tag Free

Cat. No. MMP9-040M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The sequence (Accession # NP_038627) corresponding to the catalytic domain (aa 112-445) of Mouse MMP-9 was expressed in E. coli. The recombinant mouse MMP-9 was purified from bacterial lysate and refolded using proprietary technique.
Species	Mouse
Source	E.coli
ProteinLength	112-445aa
Description	This gene encodes a member of the matrix metalloproteinase family of extracellular matrix-degrading enzymes that are involved in tissue remodeling, wound repair, progression of atherosclerosis and tumor invasion. The encoded preproprotein undergoes proteolytic processing to generate a mature, zinc-dependent endopeptidase enzyme that degrades collagens of type IV, V and XI, and elastin. Mice lacking the encoded protein exhibit an abnormal pattern of skeletal growth plate vascularization and ossification, reduced keratinocyte hyperproliferation at all neoplastic stages, a decreased incidence of invasive tumors, and resistance to experimental autoimmune encephalomyelitis.
Tag	Non
Form	Solution

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Molecular Mass	40 kDa
Purity	≥95% by SDS-PAGE
Applications	Protease activity
Usage	Research use
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Storage Buffer	300 mM NaCl, 50 mM Tris-HCl, 5 mM CaCl ₂ , 20 μM ZnCl ₂ , pH=7.5
References	1. J. F. Woessner et al., J.Biol.Chem. 263 (1988), 16918-16925 2. J. F. Woessner, Jr., FASEB J. 5 (1991), 2145-2154 3. S. M. Wilhelm et al., J.Biol.Chem. 264 (1989), 17213-17221

GENE INFORMATION

Gene Name	Mmp9 matrix metalloproteinase 9 [<i>Mus musculus</i>]
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

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Protein Refseq	NP_038627
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UniProt ID	P41245
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