Recombinant Mouse Matrix Metallopeptidase 2

Cat. No. Mmp2-415M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Mouse
Source	Mammalian Cells
Description	Matrix metallopeptidase 2, also known as MMP2, is an enzyme 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. MMP-2 degrades type IV collagen, the major structural component of basement membranes and plays a role in endometrial menstrual breakdown, regulation of vascularization and the inflammatory response. MMP2 has been found to be associated with tumor invasion in various cancers.
Molecular Weight	The molecular weight of Recombinant Mouse MMP-2 is Mr 72 kDa.
State Of Matter	Solution.
Purity	>95% by SDS Page and analyzed by silver stain.
Formulation	Supplied as a 0.2 μm filtered solution of 25 mM Tris, pH 7.5, 5 mM CaCl2, 75 mM NaCl, 0.025% Brij-35 and 50% glycerol at a concentration of 0.113 mg/mL.

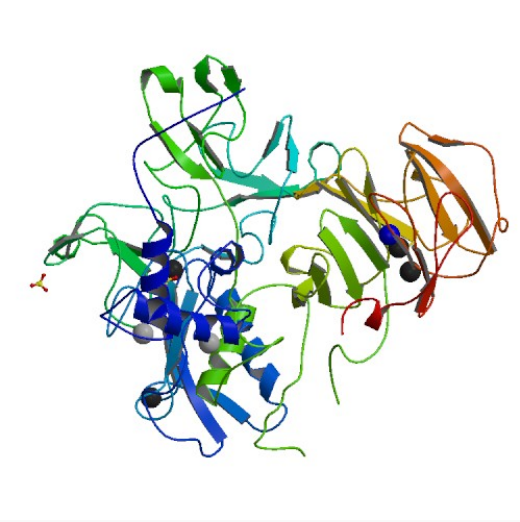
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45-1 Ramsey Road, Shirley, NY 11967, USA

Endotoxin	<1.0 EU/μg as determined by the LAL method.
Biological Activity	The specific activity, measured under the described conditions, is > 1,500 pmoles/min/μg.
Storage And Stability	This protein is stable for one month when stored sterile at -20°C or for three months when stored at -70°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles.

GENE INFORMATION

Gene Name	Mmp2 matrix metallopeptidase 2 [Mus musculus]
Synonyms	Mmp2; matrix metallopeptidase 2; GelA; Clg4a; MMP-2; gelatinase A; 72kD gelatinase; 72kDa gelatinase; 72kD type IV collagenase; 72kDa type IV collagenase; matrix metalloproteinase-2; EC 3.4.24.24
Gene ID	17390
mRNA Refseq	NM_008610
Protein Refseq	NP_032636
UniProt ID	P33434
Chromosome Location	8 C5; 8 44.0 cM
Pathway	Bladder cancer; GnRH signaling pathway; Leukocyte transendothelial migration; Pathways in cancer

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Function	calcium ion binding; hydrolase activity; metal ion binding; metalloendopeptidase activity; metallopeptidase activity; peptidase activity; zinc ion binding
PDB rendering based on 1ck7.	

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