Recombinant Mouse Mmp9 protein, His-tagged

Cat. No. Mmp9-431M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Mmp9 (P41245) aa. (Ser225~Ser413) fused with His tag was produced in Yeast cells.
Species	Mouse
Source	Yeast
ProteinLength	Ser225~Ser413
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.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 22.2kDa; Accurate Molecular Mass: 22kDa as determined by SDS-PAGE reducing conditions.
Endotoxin	<1.0EU per 1μg (determined by the LAL method)

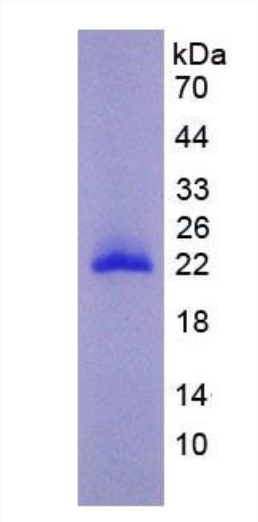
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Purity	> 95%
Characteristic	Isoelectric point is 5.7.
Applications	SDS-PAGE; WB; ELISA; IP; CoIP; EMSA; Reporter Assays; Purification; Amine Reactive Labeling
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Concentration	200ug/mL
Storage buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex

GENE INFORMATION

Gene Name	Mmp9 matrix metallopeptidase 9 [Mus musculus (house mouse)]
Official Symbol	Mmp9
Synonyms	Mmp9; matrix metallopeptidase 9; Clg4b; Gel B; MMP-9; B/MMP9; AW743869; pro-MMP-9; 92 kDa gelatinase; 92 kDa type IV collagenase; 92kD gelatinase; 92kD type

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	IV collagenase; collagenase type IVB; gelatinase B
Gene ID	17395
mRNA Refseq	NM_013599.4
Protein Refseq	NP_038627.1
UniProt ID	P41245
SDS-PAGE	

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