

Recombinant Pig MMP9 Protein, His-tagged

Cat. No. MMP9-1130P Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Pig MMP9 Protein (Ile169-Glu387) with His tag was expressed in E. coli.
Species	Pig
Source	E.coli
ProteinLength	Ile169-Glu387
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.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 27.9 kDa; Accurate Molecular Mass: 30 kDa
Purity	> 90%

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Applications	Cell culture; Activity Assays.
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 centigrade 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 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 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 metalloproteinase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase) [<i>Sus scrofa</i>]
Official Symbol	MMP9
Synonyms	MMP9; matrix metalloproteinase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase); matrix metalloproteinase-9; matrix metalloproteinase 9;
Gene ID	654325
mRNA Refseq	NM_001038004
Protein Refseq	NP_001033093

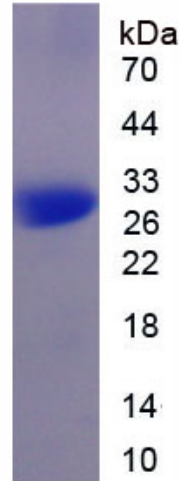
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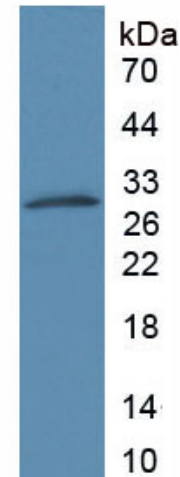
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UniProt ID

F1SC56



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**Hydrolysis of gelatin
by MMP9**

Positive negative 0.1ng 10ng 100ng 500ng 1000ng



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