

Recombinant Pig MMP3 Protein, His-tagged

Cat. No. MMP3-1117P **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Pig MMP3 Protein (Tyr18-Cys477) with His tag was expressed in E. coli.
Species	Pig
Source	E.coli
ProteinLength	Tyr18-Cys477
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. This gene encodes an enzyme which degrades fibronectin, laminin, collagens III, IV, IX, and X, and cartilage proteoglycans. The enzyme is thought to be involved in wound repair, progression of atherosclerosis, and tumor initiation. The gene is part of a cluster of MMP genes which localize to chromosome 11q22.3.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 56 kDa; Accurate Molecular Mass: 58 kDa
Purity	> 90%

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Applications	Positive Control; Immunogen; SDS-PAGE; WB.
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	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in PBS or others.

GENE INFORMATION

Gene Name	MMP3 matrix metalloproteinase 3 [<i>Sus scrofa</i> (pig)]
Official Symbol	MMP3
Synonyms	MMP3; matrix metalloproteinase 3; MMP-3; MMP10; stromelysin-1; matrix metalloproteinase 3 (stromelysin 1, progelatinase); matrix metalloproteinase-3; stromelysin; EC 3.4.24.17
Gene ID	396769
mRNA Refseq	NM_001166308
Protein Refseq	NP_001159780
UniProt ID	C9VZX5

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