

Recombinant Rabbit MMP1 Protein, His-tagged

Cat. No. MMP1-1115R Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Rabbit MMP1 Protein (Phe99-Pro268) with His tag was expressed in E. coli.

Species Rabbit

Source E.coli

ProteinLength Phe99-Pro268

Description This gene encodes a member of the peptidase M10 family of matrix metalloproteinases (MMPs). Proteins in this 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. The encoded preproprotein is proteolytically processed to generate the mature protease. This secreted protease breaks down the interstitial collagens, including types I, II, and III. The gene is part of a cluster of MMP genes on chromosome 11. Mutations in this gene are associated with chronic obstructive pulmonary disease (COPD). Alternative splicing results in multiple transcript variants, at least one of which encodes an isoform that is proteolytically processed.

Form Freeze-dried powder

Molecular Mass Predicted Molecular Mass: 22.8 kDa; Accurate Molecular Mass: 23 kDa

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Purity	> 90%
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	MMP1 matrix metalloproteinase 1 (interstitial collagenase) [<i>Oryctolagus cuniculus</i>]
Official Symbol	MMP1
Synonyms	MMP1; matrix metalloproteinase 1 (interstitial collagenase); interstitial collagenase; collagenase-1; matrix metalloproteinase-1; MMP-1;
Gene ID	100009110
mRNA Refseq	NM_001171139
Protein Refseq	NP_001164610

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UniProt ID

P13943

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