Active Recombinant Human MMP1 Protein

Cat. No. MMP1-5412H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human MMP1 (P03956) partial recombinant protein expressed in Escherichia coli.
Species	Human
Source	E.coli
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 MMPs are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. This gene encodes a secreted enzyme which breaks down the interstitial collagens, types I, II, and III. The gene is part of a cluster of MMP genes which localize to chromosome 11q22.3. Alternative splicing results in multiple transcript variants.[provided by RefSeq
Form	Lyophilized
Bio-activity	The protein is biologically active as determined by MMP-1 activity assay.
Molecular Mass	19.9 kDa
Endotoxin	< 0.1 ng/μg
Purity	>= 95% by SDS-PAGE and HPLC

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Applications	Functional Study SDS-PAGE
Storage	Store at -20 centigrade on dry atmosphere. After reconstitution with sterilized PBS, store at -20 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	No additive

GENE INFORMATION

Gene Name	MMP1 matrix metallopeptidase 1 (interstitial collagenase) [Homo sapiens]
Official Symbol	MMP1
Synonyms	MMP1; matrix metallopeptidase 1 (interstitial collagenase); CLG, matrix metalloproteinase 1 (interstitial collagenase); interstitial collagenase; fibroblast collagenase; matrix metalloprotease 1; matrix metalloproteinase 1; CLG; CLGN;
Gene ID	4312
mRNA Refseq	NM_001145938
Protein Refseq	NP_001139410
MIM	120353
UniProt ID	P03956

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