

Active Recombinant Human MMP13 protein

Cat. No. MMP13-27H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human MMP13 was expressed in E. 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 MMP's are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. The protein encoded by this gene cleaves type II collagen more efficiently than types I and III. It may be involved in articular cartilage turnover and cartilage pathophysiology associated with osteoarthritis. The gene is part of a cluster of MMP genes which localize to chromosome 11q22.3.
Form	The protein Solution (100 µg/ml) in 0.05M Tris-HCl buffer, pH 7.6, containing 0.2M NaCl, 5mM CaCl ₂ , 20mM ZnSO ₄ and 0.1% BSA and NaN ₃ .
Bio-activity	The specific biological activity measured by the ability of fibrin lysis in agarose plate was found to be 80000U/mg.
Molecular Mass	27 kDa
Purity	Greater than 90% as determined by SDS-PAGE.

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Storage

MMP-13 although stable at 4 centigrade for 1 week, should be stored desiccated below -18 centigrade. Please prevent freeze-thaw cycles.

GENE INFORMATION
Gene Name

MMP13 matrix metalloproteinase 13 (collagenase 3) [Homo sapiens]

Official Symbol

MMP13

Synonyms

MMP13; matrix metalloproteinase 13 (collagenase 3); matrix metalloproteinase 13 (collagenase 3); collagenase 3; CLG3; MMP-13; MANDP1;

Gene ID

4322

mRNA Refseq

NM_002427

Protein Refseq

NP_002418

MIM

600108

UniProt ID

P45452

**Chromosome
Location**

11q22.3

Pathway

Activation of Matrix Metalloproteinases, organism-specific biosystem; Degradation of the extracellular matrix, organism-specific biosystem; Endochondral Ossification, organism-specific biosystem; Extracellular matrix organization, organism-specific biosystem; Matrix Metalloproteinases, organism-specific biosystem;

Function

calcium ion binding; calcium-dependent protein binding; fibronectin binding; low-

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density lipoprotein particle receptor binding; metalloendopeptidase activity; peptidase activity; zinc ion binding;

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