

Recombinant Human MMP13

Cat. No. MMP13-1018H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Matrix Metalloproteinase-13 Human Recombinant produced in E.coli is a single, non-glycosylated, polypeptide chain having a molecular mass of 27 kDa. The Collagenase 3 is purified by proprietary chromatographic techniques.
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 g/ml) in 0.05 M Tris-HCl buffer, pH 7.6, containing 0.2 M NaCl, 5 mM CaCl ₂ , 20 μM ZnSO ₄ and 0.1% BSA and NaN ₃ .
Research topic	Energy metabolism and body weight regulation
Purity	>90%

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Storage

MMP-13 although stable at 4°C for 1 week, should be stored desiccated below -18°C. 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); CLG3; MANDP1; collagenase 3; MMP-13; OTTHUMP00000231260; OTTHUMP00000231261; matrix metalloproteinase 13 (collagenase 3)

Gene ID

4322

mRNA Refseq

NM_002427

Protein Refseq

NP_002418

MIM

600108

UniProt ID

P45452

Chromosome Location

11q22

Pathway

Endochondral Ossification; Matrix Metalloproteinases

Function

calcium ion binding; calcium-dependent protein binding; fibronectin binding; low-density lipoprotein particle receptor binding; metalloendopeptidase activity; peptidase activity; zinc ion binding

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ProteinMMP13 PDB
1cxv

