

## Recombinant Human MMP13

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

### SPECIFICATION

<b>Product Overview</b>	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.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	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.
<b>Form</b>	The protein Solution (100 g/ml) in 0.05 M Tris-HCl buffer, pH 7.6, containing 0.2 M NaCl, 5 mM CaCl <sub>2</sub> , 20 μM ZnSO <sub>4</sub> and 0.1% BSA and NaN <sub>3</sub> .
<b>Research topic</b>	Energy metabolism and body weight regulation
<b>Purity</b>	>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

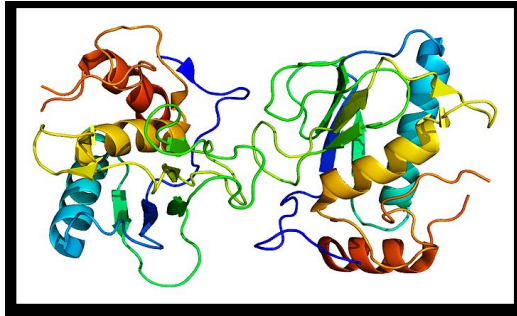
**Function** calcium ion binding; calcium-dependent protein binding; fibronectin binding; low-density lipoprotein particle receptor binding; metalloendopeptidase activity; peptidase activity; zinc ion binding

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ProteinMMP13 PDB  
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