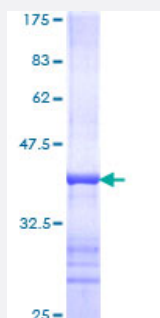


# MMP13 (Human) Recombinant Protein (Q01)

Catalog # H00004322-Q01

Size 25 ug, 10 ug

## Applications



## Specification

|                                      |                                                                                                                 |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| <b>Product Description</b>           | Human MMP13 partial ORF ( NP_002418, 362 a.a. - 471 a.a.) recombinant protein with GST-tag at N-terminal.       |
| <b>Sequence</b>                      | ILEGYPKKISELGLPKEVKKISA AVHFEDTGKTL LFSGNQVWRYDDTNHIMDKDYPR LIEEDFPGIGDKVDAVYEKNGYYFFNGPIQFEYSWSNRIVRVMPANSILWC |
| <b>Host</b>                          | Wheat Germ (in vitro)                                                                                           |
| <b>Theoretical MW (kDa)</b>          | 37.84                                                                                                           |
| <b>Interspecies Antigen Sequence</b> | Mouse (85); Rat (86)                                                                                            |
| <b>Preparation Method</b>            | <a href="#">in vitro wheat germ expression system</a>                                                           |
| <b>Purification</b>                  | Glutathione Sepharose 4 Fast Flow                                                                               |
| <b>Quality Control Testing</b>       | 12.5% SDS-PAGE Stained with Coomassie Blue.                                                                     |
| <b>Storage Buffer</b>                | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                        |
| <b>Storage Instruction</b>           | Store at -80°C. Aliquot to avoid repeated freezing and thawing.                                                 |
| <b>Note</b>                          | Best use within three months from the date of receipt of this protein.                                          |

## Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

## Gene Info — MMP13

Entrez GeneID [4322](#)

GeneBank Accession# [NM\\_002427](#)

Protein Accession# [NP\\_002418](#)

Gene Name MMP13

Gene Alias CLG3

Gene Description matrix metalloproteinase 13 (collagenase 3)

Omim ID [600108](#) [602111](#)

Gene Ontology [Hyperlink](#)

**Gene Summary**

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. [provided by RefSeq]

**Other Designations** collagenase 3|matrix metalloproteinase 13|matrix metalloproteinase 13 (collagenase 3)

## Disease

- [Adenocarcinoma](#)
- [Alveolar Bone Loss](#)

- [Aortic Aneurysm](#)
- [Arteriosclerosis](#)
- [Arthritis](#)
- [Atherosclerosis](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Chorioamnionitis](#)
- [Chronic Periodontitis](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Coronary Artery Disease](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Edema](#)
- [Endometriosis](#)
- [Esophageal Neoplasms](#)
- [Fetal Membranes](#)
- [Genetic Predisposition to Disease](#)
- [Gingival Hemorrhage](#)
- [Heart Neoplasms](#)
- [Hepatitis C](#)
- [Intervertebral Disk Displacement](#)
- [Liver Cirrhosis](#)
- [Lung Neoplasms](#)

- [Mouth Neoplasms](#)
- [Mucocutaneous Lymph Node Syndrome](#)
- [Nasopharyngeal Neoplasms](#)
- [Neoplasms](#)
- [Obstetric Labor](#)
- [Osteomyelitis](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Periodontal Attachment Loss](#)
- [Pre-Eclampsia](#)
- [Premature Birth](#)
- [Stomach Neoplasms](#)