

## Matrix Metalloproteinase 13 Active Protein | MMP13 active protein

Active Matrix Metalloproteinase 13 (MMP13)

CATALOG #  
**AAA150069**

APPLICATIONS  
**Activity Assay, Cell Culture**

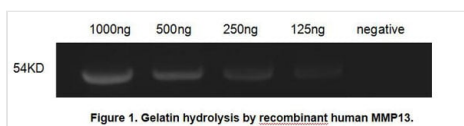
### PRODUCT SYNONYMS

Matrix Metalloproteinase 13; Active Matrix Metalloproteinase 13 (MMP13); CLG3; Collagenase 3; MMP13 active protein

### PRODUCT SPECIFICATIONS

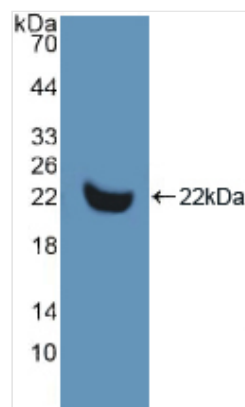
|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Purity/Purification                              | >95%                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Form/Format                                      | Freeze-dried powder<br>20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.                                                                                                                                                                                                                                                                                                                                                        |
| Sequence Positions                               | Leu290~Ile468                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Sequence Length                                  | 471                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Applicable Applications for MMP13 active protein | Activity Assay, Cell Culture                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Species                                          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Tag                                              | N-terminal His Tag                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Isoelectric Point                                | 6.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Reconstitution                                   | Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.                                                                                                                                                                                                                                                                                                                                                                                 |
| Preparation and Storage                          | Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Avoid repeated freeze/thaw cycles.<br>Stability: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition. |

### IMAGES

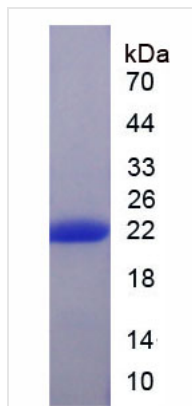


#### Application Data

Figure 1. Gelatin hydrolysis by recombinant human MMP13.



WB (Western Blot)  
Figure. Western Blot



SDS-PAGE  
Figure. SDS-PAGE

### ADDITIONAL INFORMATION

|                                                    |                                                                |
|----------------------------------------------------|----------------------------------------------------------------|
| Product Categories/Family for MMP13 active protein | Enzyme & Kinase; Tumor immunity; Bone metabolism; Rheumatology |
|----------------------------------------------------|----------------------------------------------------------------|

### NCBI AND UNIPROT INFORMATION

|                                  |                                                                     |
|----------------------------------|---------------------------------------------------------------------|
| NCBI GI #                        | 4505209                                                             |
| NCBI GeneID                      | 4322                                                                |
| NCBI Accession #                 | NP_002418.1                                                         |
| NCBI GenBank Nucleotide #        | NP_002418.1                                                         |
| UniProt Accession #              | P45452                                                              |
| Molecular Weight                 | Predicted Molecular Mass: 20.9kDa<br>Accurate Molecular Mass: 22kDa |
| NCBI Official Full Name          | collagenase 3 preproprotein                                         |
| NCBI Official Synonym Full Names | matrix metalloproteinase 13                                         |
| NCBI Official Symbol             | MMP13                                                               |
| NCBI Official Synonym Symbols    | CLG3; MDST; MANDP1; MMP-13                                          |
| NCBI Protein Information         | collagenase 3                                                       |
| UniProt Protein Name             | Collagenase 3                                                       |
| UniProt Gene Name                | <b>MMP13</b>                                                        |
| UniProt Synonym Gene Names       | MMP-13                                                              |
| UniProt Entry Name               | MMP13_HUMAN                                                         |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.