

## MMP2 recombinant protein

Recombinant Human MMP2 Protein

| CATALOG # | HOST        | REACTIVITY | APPLICATIONS                  |
|-----------|-------------|------------|-------------------------------|
| AAA263240 | Human cells | Human      | SDS-Page, Western Blot, ELISA |

### PRODUCT SYNONYMS

MMP2; Recombinant Human MMP2 Protein; CLG4A; 72 kDa type IV collagenase; 72 kDa gelatinase; Gelatinase A; Matrix metalloproteinase-2; MMP-2; TBE-1; MMP2 recombinant protein

### PRODUCT SPECIFICATIONS

|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                                 | Human cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Reactivity                                           | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Purity/Purification                                  | Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Form/Format                                          | Lyophilized from a 0.2 muM filtered solution of 20mM Tris-HCl, 150mM NaCl, pH 7.5.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Sequence                                             | APSPIIKFPG DVAPKTDKEL AVQYLNTFYG CPKESC�LFV LKDTLKKMQK FFGLPQTGDL DQNTIETMRK<br>PRCGNPDVAN YNFFPRKPKW DKNQITYRII GYTPDLDPET VDDAFARAFQ VWSDVTPLRF SRIHDGEADI<br>MINFGRWEHG DGYPFDGKDG LLAHAFAPGT GVGGDSHFDD DELWTLGEGQ VVRVKYGNAD GEYCKFPFLF<br>NGKEYNSCTD TGRSDGFLWC STTYNFEKDG KYGFCPHEAL FTMGGNAEGQ PCKFPFRFQG TSYDSCCTEG<br>RTDGYRWCGT TEDYDRDKKY GFCPETAMST VGGNSEGAPC VFPFTFLGNK YESCTSAGRS DGKMWCATTA<br>NYDDDRKWGF CPDQGYSFLF VAAHEFGHAM GLEHSQDPGA LMAPIYTYTK NFRLSQDDIK GIQELYGASP<br>DIDLGTGPTP TLGPVTPEIC KQDIVFDGIA QIRGEIFFFK DRFIWRTVTP RDKPMGPLLV ATFWPELPEK<br>IDAVYEAPQE EKAVFFAGNE YWIYSASTLE RGYPKPLTSL GLPPDVQRVD AAFNWSKNKK TYIFAGDKFW<br>RYNEVKKKMD PGFPKLIADA WNAIPDNLDA VVDLQGGGHS YFFKGAYYK LENQSLKSVK FGSIKSDWLG<br>CVDHHHHHH |
| Sequence Length                                      | 610                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Applicable Applications for MMP2 recombinant protein | MS (Mass Spectrometry), SDS-PAGE, WB (Western Blot), ELISA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Endotoxin                                            | Less than 0.1 ng/ug (1 IEU/ug) as determined by LAL test.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Directions for Use                                   | Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 mug/ml. Dissolve the lyophilized protein in 1X PBS. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Preparation and Storage                              | Lyophilized protein should be stored at -20 degree C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 2-8 degree C for 2-7 days. Aliquots of reconstituted samples are stable at -20 degree C for 3 months.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

### ADDITIONAL INFORMATION

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|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for MMP2 recombinant protein | Recombinant Human MMP2 Protein is produced by our Mammalian expression system and the target gene encoding Ala30-Cys660 is expressed with a 6His tag at the C-terminus. |
|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### NCBI AND UNIPROT INFORMATION

|                  |                |
|------------------|----------------|
| NCBI GI #        | 189217853      |
| NCBI GeneID      | 4313           |
| NCBI Accession # | NP_001121363.1 |

|                                  |                                         |
|----------------------------------|-----------------------------------------|
| NCBI GenBank Nucleotide #        | NM_001127891.2                          |
| UniProt Accession #              | P08253; Q9UCJ8; B2R6U1; B4DWH3; E9PE45  |
| Molecular Weight                 | 68,831 Da                               |
| NCBI Official Full Name          | 72 kDa type IV collagenase isoform 2    |
| NCBI Official Synonym Full Names | matrix metalloproteinase 2              |
| NCBI Official Symbol             | MMP2                                    |
| NCBI Official Synonym Symbols    | CLG4; MONA; CLG4A; MMP-2; TBE-1; MMP-II |
| NCBI Protein Information         | 72 kDa type IV collagenase              |
| UniProt Protein Name             | 72 kDa type IV collagenase              |
| UniProt Gene Name                | <b>MMP2</b>                             |
| UniProt Synonym Gene Names       | CLG4A; MMP-2                            |
| UniProt Entry Name               | MMP2_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.

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Online datasheet: <https://stage.aaabiotech.com/mmp2-recombinant-protein-human-cells-ms-mass-spectrometry-sds-page-wb-western-blot-elisa/263240>