

## Datasheet: PHP258

|                      |                         |
|----------------------|-------------------------|
| <b>Description:</b>  | RECOMBINANT HUMAN MMP-2 |
| <b>Name:</b>         | MMP-2                   |
| <b>Other names:</b>  | GELATINASE A            |
| <b>Format:</b>       | Rec. Protein            |
| <b>Product Type:</b> | Recombinant Protein     |
| <b>Quantity:</b>     | 10 µg                   |

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

|                   | Yes | No | Not Determined | Suggested Dilution |
|-------------------|-----|----|----------------|--------------------|
| Functional Assays | ▪   |    |                |                    |

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

|                                       |                                                                                                                                                                                                                            |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Target Species</b>                 | Human                                                                                                                                                                                                                      |
| <b>Product Form</b>                   | Purified recombinant protein - lyophilised                                                                                                                                                                                 |
| <b>Reconstitution</b>                 | Reconstitute with 0.1ml distilled water<br>Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution. |
| <b>Preparation</b>                    | Purified recombinant MMP-2 expressed in <i>E.coli</i>                                                                                                                                                                      |
| <b>Buffer Solution</b>                | Sodium phosphate<br>Calcium chloride                                                                                                                                                                                       |
| <b>Preservative Stabilisers</b>       | None present                                                                                                                                                                                                               |
| <b>Endotoxin Level</b>                | <1EU/ug                                                                                                                                                                                                                    |
| <b>Approx. Protein Concentrations</b> | 0.1mg/ml after reconstitution                                                                                                                                                                                              |
| <b>External Database Links</b>        | <b>UniProt:</b><br><a href="#">P08253</a> <a href="#">Related reagents</a>                                                                                                                                                 |

**Entrez Gene:**[4313](#) [MMP2](#) [Related reagents](#)

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**Synonyms** CLG4A

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**Product Information** **Recombinant Human MMP-2 antigen** produced in *E. coli* represents human MMP-2 (matrix metalloproteinase 2) containing the entire catalytic N-terminal domain and C-terminal domain. MMP-2 is otherwise known as gelatinase A, a member of a family of secreted zinc-dependent endoproteases, which play a role in the degradation of extracellular matrix (ECM) components, including both fibrillar and non-fibrillar collagens, laminin, basement membrane glycoprotein and fibronectin.

MMP-2 specifically cleaves gelatin type I, and types IV, V, VII and X collagens, and is also involved in tissue repair, inflammation, tumour invasion, vasculature angiogenesis, and the rupture of atherosclerotic plaques.

Defects in the MMP2 gene are responsible for the autosomal recessive osteolysis disorders known as [Torg-Winchester syndrome](#) ([Zankl et al. 2007](#)), and multicentric osteolysis nodulosis and arthropathy ([Martignetti et al. 2001](#)).

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**Activity** MMP-2 activity was measured by its ability to cleave a chromogenic peptide MMP-2 substrate at room temperature. At an MMP-2 concentration of 2.5 µg/ml, 50% cleavage was achieved at an incubation time of approximately 25 mins.

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**Purity** >90% by SDS PAGE and HPLC analysis

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**Storage** Prior to reconstitution store at +4°C.  
After reconstitution store at -20°C.  
Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Shelf Life** 3 months from date of reconstitution.

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**Health And Safety Information** Material Safety Datasheet Documentation #10330 available at: <https://www.bio-rad-antibodies.com/uploads/MSDS/10330.pdf>

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**Regulatory** For research purposes only

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