

Datasheet: PHP258

BATCH NUMBER 164843

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|----------------------|-------------------------|
| Description: | RECOMBINANT HUMAN MMP-2 |
| Name: | MMP-2 |
| Other names: | GELATINASE A |
| Format: | Rec. Protein |
| Product Type: | Recombinant Protein |
| Quantity: | 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.

| | 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.

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|---------------------------------|---|
| Target Species | Human |
| Product Form | Purified recombinant protein - lyophilized |
| Reconstitution | Reconstitute with 20ul distilled water 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. |
| Preparation | Purified recombinant MMP-2 expressed in <i>E.coli</i> |
| Source | E.coli |
| Buffer Solution | Sodium phosphate Calcium chloride |
| Preservative Stabilisers | None present |

| | |
|---------------------------------------|---|
| Carrier Free | Yes |
| Endotoxin Level | < 1.0 EU/ug |
| Approx. Protein Concentrations | 0.5 mg/ml after reconstitution |
| External Database Links | <p>UniProt: P08253 Related reagents</p> <p>Entrez Gene: 4313 MMP2 Related reagents</p> |
| Synonyms | CLG4A |
| Product Information | <p>Recombinant Human MMP-2 antigen produced in <i>E. coli</i> 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.</p> <p>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.</p> <p>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).</p> |
| 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. |
| Purity | >90% by SDS PAGE and HPLC analysis |
| Storage | <p>Prior to reconstitution store at -20°C.</p> <p>After reconstitution store at -20°C.</p> <p>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.</p> |
| Guarantee | Guaranteed for 3 months from the date of reconstitution or until the date of expiry, whichever comes first. Please see label for expiry date. |
| Health And Safety Information | Material Safety Datasheet documentation #10527 available at: https://www.bio-rad-antibodies.com/SDS/PHP25810527 |

RegulatoryFor research purposes only

North & South Tel: +1 800 265 7376**America** Fax: +1 919 878 3751Email: antibody_sales_us@bio-rad.com**Worldwide**

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com**Europe**

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

'M415824:230113'

Printed on 18 Jan 2024

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