

## Datasheet: PHP258

**BATCH NUMBER 166986**

<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 - lyophilized
<b>Reconstitution</b>	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.
<b>Preparation</b>	Purified recombinant MMP-2 expressed in <i>E.coli</i>
<b>Source</b>	E.coli
<b>Buffer Solution</b>	Sodium phosphate Calcium chloride
<b>Preservative Stabilisers</b>	None present

<b>Carrier Free</b>	Yes
<b>Endotoxin Level</b>	< 1.0 EU/ug
<b>Approx. Protein Concentrations</b>	0.5 mg/ml after reconstitution
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P08253</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">4313</a>    MMP2    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	CLG4A
<b>Product Information</b>	<p><b>Recombinant Human MMP-2 antigen</b> 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 <a href="#">Torg-Winchester syndrome (Zankl et al. 2007)</a>, and multicentric osteolysis nodulosis and arthropathy (<a href="#">Martignetti et al. 2001</a>).</p>
<b>Activity</b>	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.
<b>Purity</b>	>90% by SDS PAGE and HPLC analysis
<b>Storage</b>	<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>
<b>Guarantee</b>	Guaranteed for 3 months from the date of reconstitution or until the date of expiry, whichever comes first. Please see label for expiry date.
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10527 available at: <a href="https://www.bio-rad-antibodies.com/SDS/PHP258">https://www.bio-rad-antibodies.com/SDS/PHP258</a> 10527

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**Regulatory**For research purposes only

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