

Datasheet: PHP258

BATCH NUMBER 162290

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.

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>
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. 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.</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
Regulatory	For research purposes only

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: 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
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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M414356:221206'

Printed on 18 Jan 2024

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