Datasheet: PHP259

Description:	RECOMBINANT HUMAN MMP-3
Name:	MMP-3
Other names:	STROMELYSIN-1
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-3 expressed in *E.coli*

Buffer Solution

10mM Sodium Phosphate
.1% CHAPS
0.1mM 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	**UniProt:** P08254 Related reagents **Entrez Gene:** 4314 MMP3 Related reagents
Synonyms	STMY1
Product Information	**Recombinant Human MMP-3 Antigen** produced in *E. coli* represents human MMP-3 (matrix metalloproteinase 3) containing the entire catalytic N-terminal domain and C-terminal domain. MMP-3 is otherwise known as stromelysin-1, a member of a family of secreted zinc-dependent endoproteases, playing a role in the degradation of extracellular matrix components, including collagens, laminin, basement membrane glycoprotein and fibronectin. MMP-3 is implicated in wound repair, and tumor initiation, and there is high expression of MMP-3 by monocytes, and MMP-3 also expressed by microglial cells, chondrocytes, and fibroblast-like synoviocytes in patients with rheumatoid arthritis (RA) and osteoarthritis (Green *et al*. 2003).
Protein Molecular Weight	42.8 kDa (378 amino acid residues) containing the entire catalytic N-terminal and the C-terminal domain
Activity	MMP-3 activity was measured by its ability to cleave a chromogenic peptide MMP-3 substrate at room temperature. At a MMP-3 concentration of 2.5 µg/ml, 50% cleavage was achieved at an incubation time of approximately 75 mins.
Purity	>98% by SDS PAGE and HPLC
Storage	Prior to reconstitution store at +4^{o}C. After reconstitution store at -20^{o}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.
Guarantee	3 months from date of reconstitution
Health And Safety Information	Material Safety Datasheet documentation #10349 available at: 10349: https://www.bio-rad-antibodies.com/uploads/MSDS/10349.pdf
Regulatory	For research purposes only

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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

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