

Recombinant Human MMP-3
Catalog # PBG10322**Specification**

Recombinant Human MMP-3 - Product Information**Recombinant Human MMP-3 - Additional Information****Description**

Matrix metalloproteinases (MMPs) are a family of endoproteases that require zinc and calcium for expressing catalytic activity. These enzymes play a central role in the maintenance and remodeling of the extracellular matrix. Elevated expression of their activity, caused either by up-regulation of their expression or down-regulation of their cognate inhibitors, has been implicated in various degenerative disorders, including arthritis, cardiovascular disease, skeletal growth-plate disorders, and cancer metastasis. MMP-3 degrades fibronectin, laminin, collagens III, IV, and X, and cartilage proteoglycans. Recombinant human MMP-3 is a 42.8 kDa protein containing the entire catalytic N-terminal domain and the C-terminal domain (378 amino acids).

Biological 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 minutes.

Authenticity

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

Endotoxin

Endotoxin level is <0.1 ng/ µg of protein (<1EU/ µg).

Protein Content

Verified by UV Spectroscopy and/or SDS-PAGE gel.

Storage

-20°C

Precautions

Recombinant Human MMP-3 is for research use only and not for use in diagnostic or therapeutic procedures.

Recombinant Human MMP-3 - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)

- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Recombinant Human MMP-3 - Images