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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).

BiologicalActivity
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 Cytomety
- Cell Culture

Recombinant Human MMP-3 - Images