abcam

Product datasheet

Recombinant Human MMP9 protein (Catalytic domain) ab82907

1 Image

Description

Product name Recombinant Human MMP9 protein (Catalytic domain)

Purity > 95 % SDS-PAGE.

Expression system Escherichia coli

Protein length Protein fragment

Animal free No

Nature Recombinant

Species Human

Amino acids 113 to 450

Tags His tag N-Terminus

Additional sequence information N-terminal 6X His tag

Specifications

Our Abpromise guarantee covers the use of ab82907 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications SDS-PAGE

Form Liquid

Preparation and Storage

Stability and Storage Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

pH: 7.20

Constituents: PBS, 50% Glycerol

General Info

Function May play an essential role in local proteolysis of the extracellular matrix and in leukocyte migration.

Could play a role in bone osteoclastic resorption. Cleaves KiSS1 at a Gly-

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-Leu bond. Cleaves type IV and type V collagen into large C-terminal three quarter fragments and shorter N-terminal one quarter fragments. Degrades fibronectin but not laminin or Pz-peptide.

Tissue specificity Produced by normal alveolar macrophages and granulocytes.

Involvement in disease Intervertebral disc disease

Metaphyseal anadysplasia 2

Sequence similarities Belongs to the peptidase M10A family.

Contains 3 fibronectin type-II domains.

Contains 4 hemopexin repeats.

Domain The conserved cysteine present in the cysteine-switch motif binds the catalytic zinc ion, thus

inhibiting the enzyme. The dissociation of the cysteine from the zinc ion upon the activation-

peptide release activates the enzyme.

Post-translational

modifications

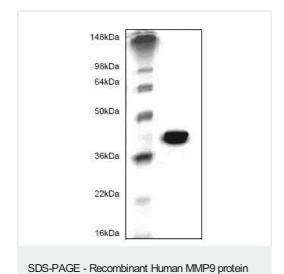
Processing of the precursor yields different active forms of 64, 67 and 82 kDa. Sequentially

processing by MMP3 yields the 82 kDa matrix metalloproteinase-9.

N- and O-glycosylated.

Cellular localization Secreted, extracellular space, extracellular matrix.

Images



(Catalytic domain) (ab82907)

SDS-PAGE showing ab82907.

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