

MMP-9, Active, human recombinant protein**Matrix Metalloproteinase-9, Gelatinase B, 92 kDa Type IV Collagenase, MMP9, CLG4B, GELB, MANDP2****Catalog # PBV11414r****Specification**

MMP-9, Active, human recombinant protein - Product info

Primary Accession

[P14780](#)

Calculated MW

39 kDa (aa 107-457 + NT His Tag) kDa**MMP-9, Active, human recombinant protein - Additional Info**

Gene ID

4319

Gene Symbol

MMP-9**Other Names**

Matrix Metalloproteinase-9, Gelatinase B, 92 kDa Type IV Collagenase, MMP9, CLG4B, GELB, MANDP2

Gene Source

Human

Source

E. coli

Assay&Purity

SDS-PAGE ; ≥95%

Assay2&Purity2

N/A;

Recombinant

Yes

Results

> 70 U/ µg**Target/Specificity****MMP-9****Application Notes**

Reconstitute with pre-chilled 30% Glycerol solution (in dH₂O) to 10 U/ µl and incubate on ice until it completely dissolves. Aliquot and store the reconstituted MMP-9 at -20°C. Stable for 2 months after reconstitution.

Format

Lyophilized

Storage

-20°C; Lyophilized from a proprietary buffer

MMP-9, Active, human recombinant protein - 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](#)

MMP-9, Active, human recombinant protein - Images**MMP-9, Active, human recombinant protein - Background**

Matrix metalloproteinase 9 (MMP-9), also known as 92 kDa type IV collagenase, 92 kDa gelatinase or gelatinase B, is the mostly studied MMP, due to its fundamental role in cancer biology, autoimmune disease, and other conditions. This enzyme degrades various substrates including gelatin, collagen types IV and V, and elastin. MMP-9 is structurally a multi-domain metalloenzyme, composed of a prodomain, a catalytic domain, a gelatin binding domain, a metal-binding domain, and a carboxyl terminal hemopexin like domain. This active human MMP-9 is composed of the catalytic domain, a gelatin binding domain, and a metal binding domain (AA 107-457). The protein was expressed in E.coli and purified and refolded using proprietary techniques.

MMP-9, Active, human recombinant protein - References

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Sato H.,et al.Oncogene 8:395-405(1993).