

Human MMP9 protein, His tag (Active)

Cat. No. GTX02551-pro
Applications Functional Assay

Species Human

Package

10 µg

Applications

Application Note

MMP9 is a zinc-dependent enzymes capable of cleaving components of the extracellular matrix, which belongs to the matrix metalloproteinase (MMP) family. It is a gelatinase A, 92kDa type IV collagenase which can hydrolyze gelatin under certain conditions. Gelatin zymography is mainly used for the detection of the gelatinases, MMP-2 and MMP-9, and it is extremely sensitive because levels of 10pg of MMP-2 can already be detected. Briefly, various concentrations of recombinant human MMP9 (1000ng, 500ng, 100ng, 10ng) were denatured by SDS loading buffer, electrophoresed through sodium dodecylsulphate- polyacrylamide gel (SDS-PAGE; 10% gels) containing gelatin (1 mg/ml) with nonreducing conditions. After renaturation, incubation and CCB-stained, active MMP2 would hydrolyze gelatin nearby, which was indicated by the white binds on the gel. In this experiment we use heat-denatured MMP9 protein as negative control, and blood sample as positive control.

Properties

Form Lyophilized powder

Buffer Reconstitute with 20mM Tris (pH8.0) and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris (pH8.0), 150mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose.

Preservative ProClin 300

Storage For short-term storage (1-2 weeks), store at 4°C. For long-term storage, store at -20°C or below. After reconstitution, keep as concentrated solution. Avoid freeze-thaw cycles.

Region/Sequence N-terminal His-Tagged; Gly213-Ala399

Expression System E. coli

Purity > 95%

Endotoxin < 1.0 EU per µg (determined by the LAL method)

Conjugation Unconjugated

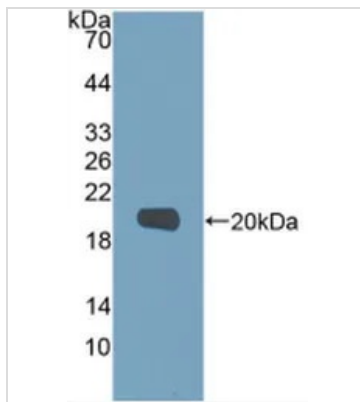
Note

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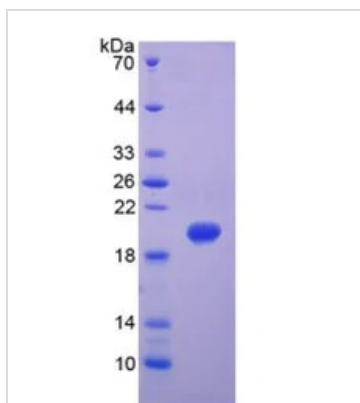
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DATA IMAGES

GTX02551-pro Image

WB analysis of GTX02551-pro Human MMP9 protein.


GTX02551-pro Image

SDS-PAGE of GTX02551-pro Human MMP9 protein, His tag (Active).


GTX02551-pro Functional Assay Image

Gelatin hydrolysis by various concentrations of GTX02551-pro Human MMP9 protein, His tag (Active).

Positive control : blood sample

Negative control : heat-denatured MMP9 protein



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