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Human MMP9 protein, His tag (Active)

Cat No. GTX02551-pro**Application** Functional Assay**Species** Human**Package**

10 µg

APPLICATION

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.

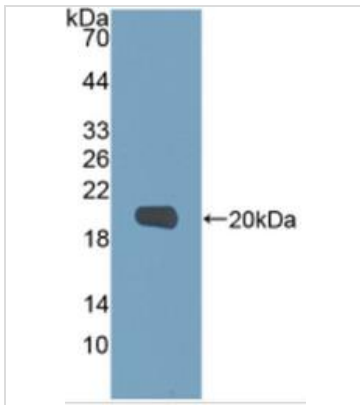
Calculated MW 78 kDa. ([Note](#))

PROPERTIES

Form Lyophilized powder**Buffer** Lyophilized from 20 mM Tris (pH 8.0), 150 mM NaCl, 1 mM EDTA, 1 mM DTT, 0.01% SKL, 5% Trehalose and Proclin300. Reconstitute with 20 mM Tris (pH8.0), 150 mM NaCl to a concentration of 0.1-1.0 mg/ml. Do not vortex.**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** For laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.

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DATA IMAGES



GTX02551-pro Image

WB analysis of GTX02551-pro Human MMP9 protein.

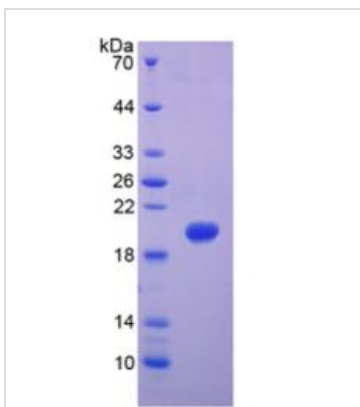


GTX02551-pro Functional Assay Image

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

Positive control : blood sample

Negative control : heat-denatured MMP9 protein



GTX02551-pro Image

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



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