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## Product Datasheet

### Human MMP9 protein, His tag (Active), Unconjugated GTX02551-PRO

Article Name	Human MMP9 protein, His tag (Active), Unconjugated
Biozol Catalog Number	GTX02551-PRO
Supplier Catalog Number	GTX02551-pro
Alternative Catalog Number	GTX02551-PRO-10
Manufacturer	GeneTex
Category	Proteine/Peptide
Application	FA
Species Reactivity	Human
Conjugation	Unconjugated
NCBI	<a href="#">4318</a>
UniProt	<a href="#">P14780</a>
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, ProClin 300.
Expression System	E. coli
Form	Lyophilized powder
Sequence	N-terminal His-Tagged, Gly213-Ala399

Application Notes

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.