

## General Information

### Gene Name Synonym

92 kDa gelatinase; 92 kDa type IV collagenase; Gelatinase B; 67 kDa matrix metalloproteinase-9; 82 kDa matrix metalloproteinase-9

### Protein Construction

A DNA sequence encoding the human MMP9 zymogen (NP\_004985.2) (Met 1-Asp 707) was expressed.

### Organism

Human

### Expression Host

Human Cells

## QC Testing

### Activity

Measured by its ability to cleave the fluorogenic peptide substrate, Mca-PLGL-Dpa-AR-NH<sub>2</sub>, (AnaSpec, Cat#27076). The specific activity is >600 pmoles/min/μg.

### Purity

> 94 % as determined by SDS-PAGE

### Endotoxin

< 1.0 EU per μg of the protein as determined by the LAL method

### Stability

Samples are stable for up to twelve months from date of receipt at -70°C

### Predicted N terminal

Ala 20

### Molecular Mass

The recombinant human MMP9 consisting of 688 amino acids has a predicted molecular mass of 76.3 kDa. The apparent molecular mass of rh MMP9 is approximately 80-95 kDa in SDS-PAGE due to glycosylation.

### Formulation

Lyophilized from sterile 50mM Tris, 0.15M NaCl, 0.01M CaCl<sub>2</sub>, 0.05% Brig-35, pH 7.5

1. 5 % trehalose and mannitol are added as protectants before lyophilization.

2. Please contact us for any concerns or special requirements.

## Usage Guide

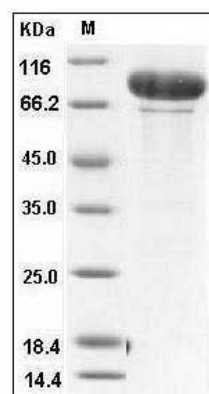
### Storage

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

### Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

### SDS-PAGE



Human MMP-9 / CLG4B Protein SDS-PAGE