

General Information

Gene Name Synonym

Matrix metalloproteinase-9

Protein Construction

A DNA sequence encoding the rat MMP9 (EDL96479.1) (Met 1-Pro 708) was expressed, fused with a polyhistidine tag at the C-terminus.

Organism

Rat

Expression Host

Human Cells

QC Testing

Activity

Measured by its ability to cleave a fluorogenic peptide substrate Mca-PLGL-Dpa-AR-NH₂ (AnaSpec, Catalog # 27076). The specific activity is >1000 pmoles/min/μg.

Purity

> 95 % 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 secreted recombinant rat MMP9 comprises 700 amino acids and predicts a molecular mass of 77.8 kDa. The apparent molecular mass of the rat MMP9 is approximately 100-110 kDa in SDS-PAGE under reducing conditions due to glycosylation.

Formulation

Lyophilized from sterile 50mM MES, 100mM NaCl, 1mM CaCl₂, 10% Glycerol, pH 7.4
1. 5 % trehalose and mannitol are added as protectants before lyophilization.
2. Please contact us for any concerns or special requirements.

Usage Guide

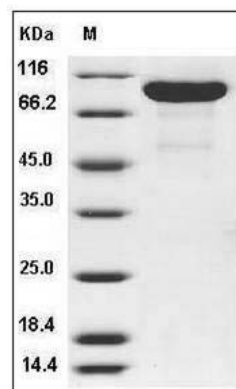
Storage

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



Rat MMP-9 / CLG4B Protein (His Tag) SDS-PAGE