

Recombinant Rat MMP-9 Protein

Catalog No.: RP01212 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Rat	81687	P50282

Tags

C-His

Synonyms

92 kDa gelatinase;92 kDa type IV collagenase;GELB;MMP9;MMP-9;MMP9

Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of 50mM Tris,10mM CaCl₂,150mM NaCl, pH 7.5.Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

Basic Information

Description

Recombinant Rat MMP-9 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Leu35-Pro708) of rat MMP-9 (Accession #NP_038627.1.) fused with a 6×His tag at the C-terminus.

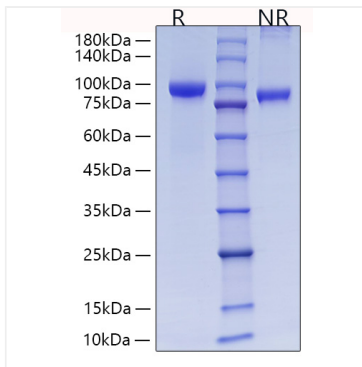
Bio-Activity

1.Measured in a cell migration assay using Hela cells. 1 ng/mL of Recombinant Rat MMP-9 can effectively induce Hela cells migration.|2.Measured by its ability to cleave the fluorogenic peptide substrate Mca-PLGL-Dpa-AR-NH₂. The specific activity is >1600 pmoles/min/μg.

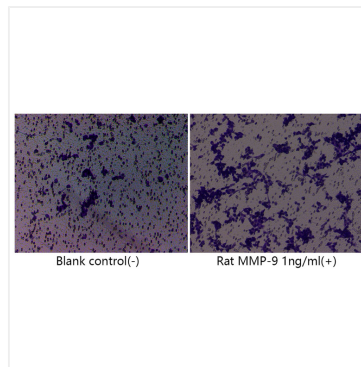
Storage

Store at -20°C.Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Rat MMP-9 Protein was resolved with SDS PAGE under reducing (R) and non-reducing (NR) conditions, showing single bands at 90-100 kDa and 180-200 kDa, respectively.



Recombinant Rat MMP9 induces cell migration of the HeLa cells. 1 ng/mL of Recombinant Rat MMP-9 can effectively induce HeLa cells migration.