

# Active Recombinant Human MMP9 Q279R Protein, His-tagged

Cat. No. MMP9-005H Lot. No. (See product label)

## SPECIFICATION

### Product Overview

Active recombinant human MMP9 Q279R protein (20-707) with a C-terminal His tag was expressed in HEK293 cells.

### Species

Human

### Source

HEK293

### ProteinLength

20-707

### Description

Proteins of the matrix metalloproteinase (MMP) family are involved in the breakdown of extracellular matrix in normal physiological processes, such as embryonic development, reproduction, and tissue remodeling, as well as in disease processes, such as arthritis and metastasis. Most MMP's are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. The enzyme encoded by this gene degrades type IV and V collagens. Studies in rhesus monkeys suggest that the enzyme is involved in IL-8-induced mobilization of hematopoietic progenitor cells from bone marrow, and murine studies suggest a role in tumor-associated tissue remodeling.

### Bio-activity

Activation: This is a proform enzyme and requires activation prior to testing activity. Dilute the enzyme to 100 ng/mL in a solution containing 50 mM HEPES, pH 7.4, 10 mM CaCl<sub>2</sub>, 0.05% Brij-35, and 1mM APMA (amino-phenyl mercuric acetate). Incubate at 37 centigrade for 2 hours.

### Molecular Mass

77.8 kDa

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Purity</b>	≥90%
<b>Applications</b>	Enzyme assay
<b>Stability</b>	≥ 1 year
<b>Storage</b>	At -80 centigrade.
<b>Storage Buffer</b>	40 mM Tris-HCl buffer, pH 8.0, with 110 mM sodium chloride, 2.2 mM potassium chloride, 200 mM imidazole, and 20% glycerol

## GENE INFORMATION

<b>Gene Name</b>	MMP9 matrix metalloproteinase 9 [ Homo sapiens (human) ]
<b>Official Symbol</b>	MMP9
<b>Synonyms</b>	MMP9; matrix metalloproteinase 9; GELB; CLG4B; MMP-9; MANDP2; matrix metalloproteinase-9; macrophage gelatinase; matrix metalloproteinase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase); matrix metalloproteinase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase); type V collagenase; EC 3.4.24.35
<b>Gene ID</b>	4318
<b>mRNA Refseq</b>	NM_004994
<b>Protein Refseq</b>	NP_004985
<b>MIM</b>	120361

 Tel: 1-631-559-9269 1-516-512-3133

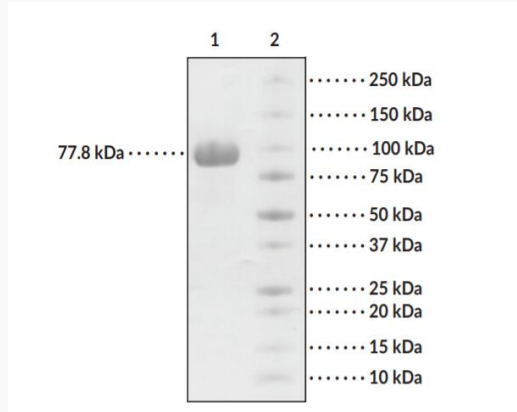
 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

**UniProt ID**

**P14780**

**SDS-PAGE analysis  
of MMP-9 Q279R  
Variant**

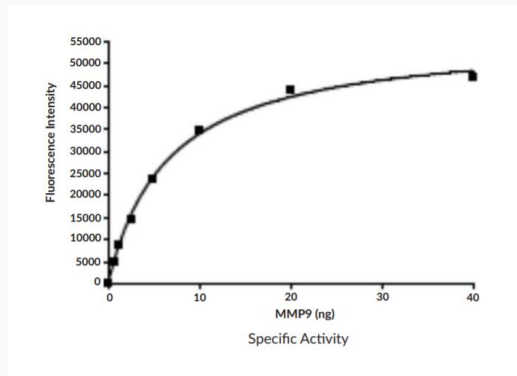


Lane 1: MMP-9 Q279R Variant (6.3 µg)

Lane 2: MW Markers

This protein has a calculated molecular weight of 77.8 kDa

**Specific Activity**



Tel: 1-631-559-9269 1-516-512-3133

Email: [info@creative-biomart.com](mailto:info@creative-biomart.com) Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA