

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 ₂ , 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  Fax: 1-631-938-8127

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Purity	≥90%
Applications	Enzyme assay
Stability	≥ 1 year
Storage	At -80 centigrade.
Storage Buffer	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

Gene Name	MMP9 matrix metalloproteinase 9 [Homo sapiens (human)]
Official Symbol	MMP9
Synonyms	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
Gene ID	4318
mRNA Refseq	NM_004994
Protein Refseq	NP_004985
MIM	120361

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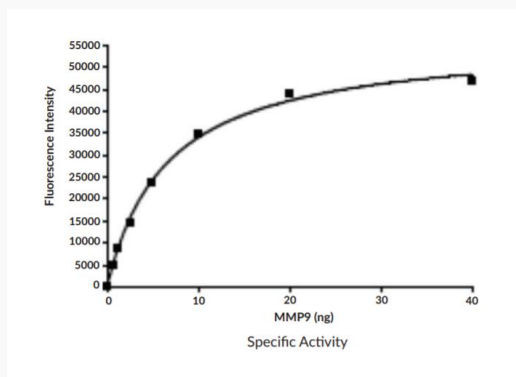
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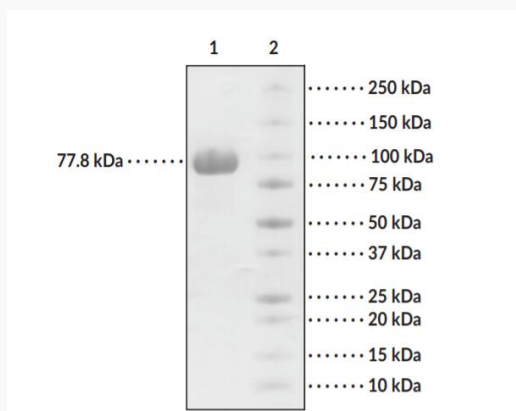
UniProt ID

P14780

Specific Activity



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

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