

Active Recombinant Pre-activated Human MMP9 Protein

Cat. No. MMP9-03H Lot. No. (See product label)

SPECIFICATION

Product Overview

Recombinant human pre-activated Matrix Metalloproteinase-9 (MMP-9) is expressed in human HEK 293 cells as a glycoprotein. The DTT-reduced protein migrates as a ~67 kDa polypeptide on SDS-PAGE. This protein is manufactured in human cells, with no serum. The human cells expression system allows human-like glycosylation and folding, and often supports higher specific activity of the protein. The protein is produced with no artificial tags.

Species Human

Source HEK293

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.

Form Liquid

Bio-activity $\geq 1,300$ pmol/min/ μ g

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Molecular Mass	Calculated mol wt 66 kDa observed mol wt 82 kDa by SDS-PAGE (The protein migrates as a 82 kDa protein on SDS-PAGE due to glycosylation)
Purity	≥95% (SDS-PAGE)
Applications	Cell analysis
Notes	This product was pre-activated in vitro using 4-Aminophenylmercuric acetate (APMA). Thus, it is active and ready for use. In order to save our customers from handling hazardous materials, and for environmental saving, the highly toxic and fatal APMA was removed from the final preparation.
Concentration	30-120 µg/mL (50 µg protein, determined by Bradford. The protein concentration is 30-120 µg/mL. for the lot-specific concentration, see Certificate of Analysis.)
Storage Buffer	Liquid solution, 0.22 mm filtered, containing 25 mM Tris, 10 mM CaCl ₂ , 0.05% Brij-35
Shipping	Dry ice

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

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Gene ID 4318

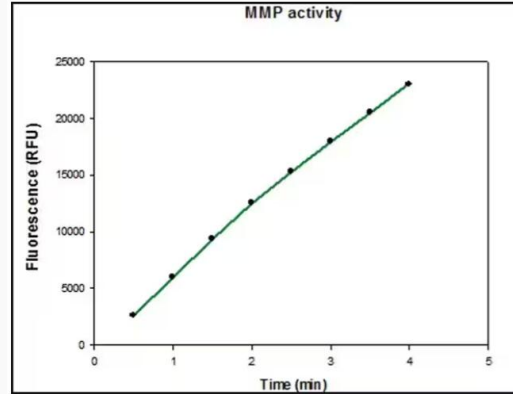
mRNA Refseq NM_004994

Protein Refseq NP_004985

MIM 120361

UniProt ID P14780

Activity



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