HUMAN MMP9(20-469) PROTEIN, HIS TAG

Cat.#: 11501

Product Name: Human MMP9(20-469) Protein

Size : 10 µg, 50 µg and 100 µg

Synonyms: GELB;CLG4B

Target: MMP9

UNIPROT ID: P14780

Description: Recombinant human MMP9 Protein with C-terminal 6xHis tag

Background: 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. [provided by RefSeq, Jul 2008]

Species/Host: HEK293

Molecular Weight: The protein has a predicted molecular mass of 48.5 kDa after removal of the signal peptide. The apparent molecular mass of MMP9-His is approximately 55-70 kDa due to glycosylation.

Molecular Characterization: MMP9(Ala20-Pro469) 6×His tag

Purity: The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.

Formulation & Reconstitution: Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.

Storage & Shipping: Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.

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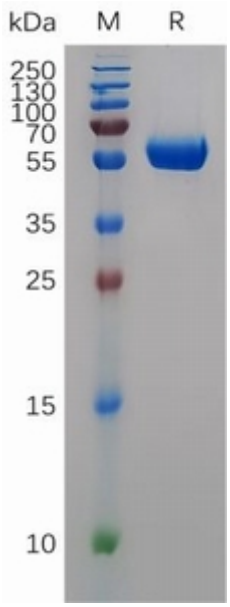

Figure 1. Human MMP9, His Tag on SDS-PAGE under reducing condition.

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