

Product datasheet

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ARG70330
Rat MMP9 recombinant protein (Active) (His-tagged, C-ter)

Sto

Package: 20 μg Store at: -20°C

Summary

Product Description HEK293 expressed, His-tagged (C-ter) Active Rat MMP9 recombinant protein.

Tested Reactivity Rat

Tested Application FuncSt, SDS-PAGE

Target Name MMP9

Species Rat

A.A. Sequence Leu35 - Pro708 of Rat MMP9 (NP_038627.1) with 6X His tag at the C-terminus.

Expression System HEK293

Activity Active

Activity Note Measured in a cell migration assay using HeLa cells. 1 ng/ml of Recombinant Rat MMP-9 can effectively

induce HeLa cells migration.

Alternate Names Matrix metalloproteinase-9; 92 kDa gelatinase; MMP-9; Gelatinase B; GELB; CLG4B; MANDP2; EC

3.4.24.35; 92 kDa type IV collagenase

Properties

Form Powder

Purification Note 0.22 μm filter sterilized. Endotoxin level is 95% (by SDS-PAGE)

Buffer 50 mM Tris (pH 7.5), 10 mM CaCl2 and 150 mM NaCl.

Reconstitution Reconstitute to a concentration of 0.1 - 0.5 mg/ml in sterile distilled water.

Storage instruction For long term, lyophilized protein should be stored at -20°C or -80°C. After reconstitution, aliquot and

store at -20°C for up to one month, at 2-8°C for up to one week. Storage in frost free freezers is not

recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol MMP9

Gene Full Name matrix metallopeptidase 9

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]

Function May play an essential role in local proteolysis of the extracellular matrix and in leukocyte migration.

Could play a role in bone osteoclastic resorption. Cleaves KiSS1 at a Gly-|-Leu bond. Cleaves type IV and type V collagen into large C-terminal three quarter fragments and shorter N-terminal one quarter

type v conagen into large c-terminal three quarter fragments and shorter w-terminal one quarter

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fragments. Degrades fibronectin but not laminin or Pz-peptide. [UniProt]

Calculated Mw 78 kDa

PTM Processing of the precursor yields different active forms of 64, 67 and 82 kDa. Sequentially processing

by MMP3 yields the 82 kDa matrix metalloproteinase-9.

N- and O-glycosylated. [UniProt]

Cellular Localization Secreted, extracellular space, extracellular matrix. [UniProt]

Images

