

ARG70335 Mouse MMP9 recombinant protein (His-tagged, C-ter)

Package: 50 µg
Store at: -20°C

Summary

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|---------------------|---|
| Product Description | HEK293 expressed, His-tagged (C-ter) Mouse MMP9 recombinant protein. |
| Tested Reactivity | Ms |
| Tested Application | SDS-PAGE |
| Target Name | MMP9 |
| Species | Mouse |
| A.A. Sequence | Ala20 - Pro730 of Mouse MMP9 (NP_038627.1) with 6X His tag at the C-terminus. |
| Expression System | HEK293 |
| 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

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| Form | Powder |
| Purification Note | 0.22 µm filter sterilized. Endotoxin level is 97% (by SDS-PAGE) |
| Buffer | 50 mM Tris (pH 7.5), 10 mM CaCl ₂ 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

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|----------------|---|
| Gene Symbol | MMP9 |
| Gene Full Name | matrix metalloproteinase 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-I-Leu bond. Cleaves type IV and type V collagen into large C-terminal three quarter fragments and shorter N-terminal one quarter 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 |

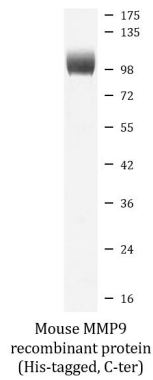
by MMP3 yields the 82 kDa matrix metalloproteinase-9.

N- and O-glycosylated. [UniProt]

Cellular Localization

Secreted, extracellular space, extracellular matrix. [UniProt]

Images



ARG70335 Mouse MMP9 recombinant protein (His-tagged, C-ter)
SDS-PAGE image

SDS-PAGE analysis of ARG70335 Mouse MMP9 recombinant protein (His-tagged, C-ter).