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| **Recombinant Human Matrix Metalloproteinase-9/MMP-9 (C-6His)** |

**Cat.No # MPM8776 Lot.No : Refer to Vial**

**Packaging: 10ug \ 50ug**

**Description**

Matrix metallopeptidase 9 (MMP-9) is an enzyme encoded by the MMP9 gene. This protein, which is produced by normal alveolar macrophages and granulocytes, can be activated by 4-aminophenylmercuric acetate and phorbol ester and up-regulated by ARHGEF4, SPATA13 and APC via the JNK signaling pathway in colorectal tumor cells. MMP-9 is involved in the breakdown of extracellular matrix in normal physiological processes, such as embryonic development, reproduction, angiogenesis, bone development, wound healing, cell migration, learning and memory, as well as in pathological processes, such as arthritis, intracerebral hemorrhage, and metastasis.

Origin

Recombinant Human Matrix metalloproteinase-9 is produced by our Mammalian expression system and the target gene encoding Ala19-Asp707 is expressed with a 6His tag at the C-terminus.

**Quality control**

Greater than 95% as determined by reducing SDS-PAGE.

**Dissolution**

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100μg/ml. Dissolve the lyophilized protein in ddH2O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

**Store condition**

Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.

Reconstituted protein solution can be stored at 4-7°C for 2-7 days.

Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**For Research Use Only. Not for use in diagnostic procedures.**

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