Recombinant Human MMP-9 protein (His tag)

Catalog Number:PDMH100118

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Synonyms	Matrix metalloproteinase-9;92 kDa gelatinase;92 kDa type IV collagenase;Gelatinase B;MMP9;CLG4B;GELB;MANDP2
Species	Human
Expression Host	HEK293 Cells
Sequence	Met 1-Asp 707
Accession	P14780
Calculated Molecular Weight	77.7 kDa
Observed molecular weight	85 kDa
Tag	C-His

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	Please contact us for more information.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Background

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.