

Recombinant Human MMP-9 protein (His tag)

Catalog No. PKSH033431

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

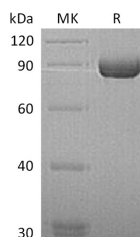
Description

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	77.4 kDa
Observed molecular weight	85 kDa
Tag	C-His
Bioactivity	Testing in progress

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°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C 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.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Matrix metalloproteinase 9 (MMP-9) is an enzyme encoded by the MMP9 gene. This protein; which is produced by

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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.

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