

Matrix Metalloproteinase-9 Recombinant Protein | MMP 9 recombinant protein

Recombinant Human Matrix Metalloproteinase-9

CATALOG # AAA38720	HOST E Coli
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PRODUCT SYNONYMS

Matrix Metalloproteinase-9; Recombinant Human Matrix Metalloproteinase-9; MMP 9 Human; Matrix Metalloproteinase-9 Human Recombinant; Matrix metalloproteinase-9; MMP-9; 92 kDa type IV collagenase; 92 kDa gelatinase; Gelatinase B; GELB; MMP9; CLG4B; MMP 9 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 95.0% as determined by SDS-PAGE.
Form/Format	(0.57 mg/ml) MMP-9 protein is supplied in 20mM Tris-HCl pH 8.0 and 50% glycerol. Sterile Filtered clear solution.
Sequence	4.5kDaHisT ag-DLKWHHH NITYWIQNY EDLPRAVIDD AFARAFALWS AVTPLTFTRV YSRDADIVIQ FGVAEHGDGY PFDGKDGLLA HAFPPGPGIQ GDAHFDDDEL WSLGKGVVVP TRFGNADGAA CHFPFIFEGR SYSACTTDGR SDGLPWCSTT ANYDTDDRFG FCPSELYTR DGNADGKPCQ PPFIFQGQSY SACTTDGRSD GYRWCATTAN YDRDKLFGFC PTRADSTVMG GNSAGELCVF PFTFLGKEYS TCTSEGRGDG RLWCATTSNF DSDKKWGFCP DQGYSLFLVA AHEFGHALGL DHSSVPEALM YPMYRFTEGP PLHKDDVNGI RHL YGP
Sequence Length	707
Preparation and Storage	Store at 4 degree C if entire vial will be used within 2-4 weeks. Store, frozen at -20 degree C for longer periods of time. Please avoid freeze thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for MMP 9 recombinant protein	Description: MMP-9 Human Recombinant produced in E Coli is single, a non-glycosylated, Polypeptide chain containing 338 amino acids fragment (113-450) corresponding to the catalytic domain of the protein, having a total molecular mass of 42.03kDa and fused with a 4.5kDa amino-terminal hexahistidine tag. The MMP-9 is purified by proprietary chromatographic techniques. Introduction: Matrix metalloproteinases are a family of zinc and calcium-dependent endopeptidases that break down extracellular matrix proteins. The MMP9 is secreted as a 92kDa zymogen. Cleavage of ProMMP-9 results in the active enzyme, having a molecular weight of approximately 82kDa. MMP9 is composed of the following domains: a gelatin-binding domain consisting of three fibronectin type II units, a catalytic domain containing the zinc-binding site, a proline-rich type V collagen-homologous domain and a hemopexin-like domain. MMP9 is produced by the several cell types: monocytes, macrophages, neutrophils, keratinocytes, fibroblasts, osteoclasts and endothelial cells. MMP9 is involved in inflammatory responses, tissue remodeling, wound healing, tumor growth and metastasis. MMP9 may also play an important part in local proteolysis of the extracellular matrix and in leukocyte migration, as well as in bone osteoclastic resorption. MMP9 cleaves type IV and type V collagens into large C-terminal three quarter fragments and shorter N-terminal one quarter fragments. MMP9 can also degrade fibronectin but not laminin or Pz-peptide. MMP9 defects may be a cause of susceptibility to intervertebral disc disease (IDD), also known as lumbar disk herniation (LDH).
Product Categories/Family for MMP 9 recombinant protein	Enzymes; Matrix Metalloproteinase

NCBI AND UNIPROT INFORMATION

NCBI GI #	74272287
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NCBI GeneID	4318
NCBI Accession #	NP_004985.2
NCBI GenBank Nucleotide #	NM_004994.2
UniProt Accession #	P14780 ; Q3LR70 ; Q8N725 ; Q9H4Z1 ; Q9UCJ9 ; Q9UCL1 ; Q9UDK2 ; B2R7V9
Molecular Weight	78,458 Da
NCBI Official Full Name	matrix metalloproteinase-9 preproprotein
NCBI Official Synonym Full Names	matrix metalloproteinase 9
NCBI Official Symbol	MMP9
NCBI Official Synonym Symbols	GELB; CLG4B; MMP-9; MANDP2
NCBI Protein Information	matrix metalloproteinase-9; macrophage gelatinase; matrix metalloproteinase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase); matrix metalloproteinase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase); type V collagenase
UniProt Protein Name	Matrix metalloproteinase-9
UniProt Gene Name	MMP9
UniProt Synonym Gene Names	CLG4B; MMP-9; GELB
UniProt Entry Name	MMP9_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/mmp9-recombinant-protein-e-coli/38720>