Active Recombinant Human MMP9 protein, His-tagged

Cat. No. MMP9-4893H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MMP9(Ala20-Asp707) fused with a C-terminal 8 His-tag and a linker sequence was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	20-707 a.a.
Predicted N Terminal	Ala
Form	0.22 μm filtered protein solution is in TCN (25 mM TRIS, 10 mM CaCl2, 150 mM NaCl, pH 7.5).
Bio-activity	Human MMP-9 cleaves the peptide substrate Mca-PLGL-Dpa-AR-NH2 with an activity above 1000 pmol/min/μg.
Molecular Mass	This 722 amino acid recombinant protein has a predicted molecular mass of approximately 80 kD. The protein migrates at about 92 kD in DTT-reducing conditions and 250 kD in non-reducing conditions by SDS-PAGE.
Endotoxin	Less than 1.0 EU per μg of protein as determine by the LAL method.
Purity	>95%, as determined by Coomassie stained SDS-PAGE.

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Storage	Unopened vial can be stored at -70 centigrade for six months. For maximum results, quick spin vial prior to opening. Avoid repeated freeze/thaw cycles.

GENE INFORMATION

Gene Name	MMP9 matrix metallopeptidase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase) [Homo sapiens]
Official Symbol	MMP9
Synonyms	MMP9; matrix metallopeptidase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase); CLG4B, matrix metalloproteinase 9 (gelatinase B, 92kD gelatinase, 92kD type IV collagenase) , matrix metalloproteinase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase); matrix metalloproteinase-9; 92 kDa gelatinase; type V collagenase; macrophage gelatinase; 92 kDa type IV collagenase; matrix metalloproteinase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase); GELB; CLG4B; MMP-9; MANDP2;
Gene ID	4318
mRNA Refseq	NM_004994
Protein Refseq	NP_004985
MIM	120361
UniProt ID	P14780
Chromosome Location	20q12-q13

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Pathway	Activation of Matrix Metalloproteinases, organism-specific biosystem; Bladder cancer, organism-specific biosystem; Bladder cancer, conserved biosystem; CXCR4-mediated signaling events, organism-specific biosystem; Degradation of the extracellular matrix, organism-specific biosystem
Function	collagen binding; fibronectin binding; metal ion binding; metalloendopeptidase activity; peptidase activity; protein binding; protein complex binding; zinc ion binding;

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