Active Recombinant Human MMP9 protein

Cat. No. MMP9-410H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MMP9(Ala20-Asp707) was expressed in CHO.
Species	Human
Source	CHO
ProteinLength	20-707 a.a.
Predicted N Terminal	Ala20
Form	Supplied as a 0.2 μm filtered solution in Tris, CaCl2, NaCl and Brij-35.
Bio-activity	>1,300 pmol/min/ug
Molecular Mass	Predicted Molecular Mass: 77 kDa;SDS-PAGE: 93 kDa, reducing conditions
Endotoxin	<1.1 EU per 1 μg of the protein by the LAL method.
Purity	>90%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Stability	Avoid repeated freeze-thaw cycles.6 months from date of receipt, -20 to -70 centigrade as supplied.3 months, -20 to -70 centigrade under sterile conditions after opening.
Reconstitution	It is recommeded that 0.1 mL of TCNB buffer (50 mM Tris, 10 mM CaCl2, 150 mM

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	NaCl, 0.05% Brij 35, pH 7.5) be used to give a stock solution of the enzyme at 100 µg/mL.

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; Endochondral Ossification, organism-specific biosystem; Extracellular matrix organization, 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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