

Active Recombinant Full Length Human MMP9 Protein

Cat. No. MMP9-01HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Full Length Human MMP9 Protein was expressed in human neutrophil granulocytes (buffy coat).
Species	Human
Source	Isolated from stimulated human neutrophil granulocytes (buffy coat). Disulfide-bridged MMP-9 homodimer.
Description	MMP-9 hydrolyzes the extracellular matrix, e.g. collagen types IV, V and IX and gelatin.
Form	Liquid
Molecular Mass	~220 kDa
Bio-activity	≥1,400 mU/mg protein. One unit is defined as the amount of enzyme that hydrolyzes 1 μmol Dnp-Pro-Gln-Gly-Ile-Ala-Gly-Gln-D-Arg-OH per min. at 37 centigrade, pH 7.0.
Purity	≥95%
Storage	Long Term Storage: -80 centigrade
Storage Buffer	In 50mM Tris-HCl, pH 7.0, containing 200mM sodium chloride, 5mM CaCl ₂ , 1μM ZnCl ₂ , 0.05% BRIJ35, and 0.05% sodium azide.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Handling	Avoid freeze/thaw cycles.
Shipping	Dry Ice
Reference	1. Progelatinase B forms from human neutrophils. complex formation of monomer/lipocalin with TIMP-1: H. Kolkenbrock, et al.; Biol. Chem. 377, 529 (1996). 2. A novel coumarin-labelled peptide for sensitive continuous assays of the matrix metalloproteinases: C.G. Knight, et al.; FEBS Lett. 296, 263 (1992). 3. Synthetic substrates for vertebrate collagenase: Y. Masui, et al.; Biochem. Med. 17, 215 (1977).

GENE INFORMATION

Gene Name	MMP9 matrix metallopeptidase 9 [Homo sapiens (human)]
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

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UniProt ID

P14780

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