Native Human Pro-MMP-8

Cat. No. MMP8-89H **Lot. No.** (See product label)

SPECIFICATION

Species	Human
Source	Human Neutrophil
Description	Human neutrophil collagenase (HNC) has been purified from extracts of fresh and outdated buffy coats and from exudates of phorbol myristate acetate-stimulated neutrophils. The MMP-8 present in the starting material can either be latent or active, or have an app. relative molecular mass of 75-kDa and/or 58-kDa. The rather complex pattern of activation of the latent 58-kDa and 75-kDa species by trypsin, organomercurials and oxidants has been investigated. MMP-8 was shown to preferentially hydrolyze type I over type II, and type III collagens in solution and to be a glycoprotein that contains complex N-linked oligosaccharides leading to multiple forms of MMP-8 in SDS-PAGE. The action of endoglycosidase on the latent 58-kDa form produces 42/40-kDa species (Gao et al. 1992, Mallya et al. 1990). This indicates that MMP-8 is an N-linked, complex glycoprotein that appears to be glycosylated at multiple sites
Form	Liquid
Molecular Mass	40/42 kDa
Usage	For Research Use Only! Not For Use in Humans.
Notes	Centrifuge the vial prior to opening

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Storage	-80°C
Storage Buffer	In 50 mM Tris-HCl, pH 7; 200 mM NaCl; 5 mM CaCl?; 1 μM ZnCl?; 0.05% Brij 35; 0,05% NaN?
Shipping	Dry Ice

GENE INFORMATION

Gene Name	MMP8 matrix metallopeptidase 8 (neutrophil collagenase) [Homo sapiens]
Official Symbol	MMP8
Synonyms	MMP8; matrix metallopeptidase 8 (neutrophil collagenase); CLG1, matrix metalloproteinase 8 (neutrophil collagenase); neutrophil collagenase; PMNL collagenase; matrix metalloproteinase-8; matrix metalloproteinase 8 (neutrophil collagenase); HNC; CLG1; MMP
Gene ID	4317
mRNA Refseq	NM_002424
Protein Refseq	NP_002415
MIM	120355
UniProt ID	P22894
Chromosome Location	11q21-q22

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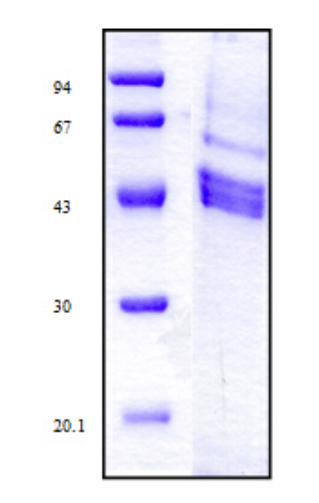
Pathway	Activation of Matrix Metalloproteinases, organism-specific biosystem; Degradation of the extracellular matrix, organism-specific biosystem; Extracellular matrix organization, organism-specific biosystem; Matrix Metalloproteinases, organism-specific biosystem;
Function	calcium ion binding; metalloendopeptidase activity; peptidase activity; serine-type endopeptidase activity; zinc ion binding;
	

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