

Recombinant Human Matrix Metalloproteinase 8

Cat. No. MMP8-41H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Matrix Metalloproteinase-8 produced in <i>E. Coli</i> is a single, non-glycosylated, polypeptide chain having a molecular mass of 75 kDa. The MMP-8 is purified by proprietary chromatographic techniques.
Species	Human
Source	E.coli
Description	Full-length recombinant human neutrophil pro-collagenase (MMP-8), latent form. Matrix metalloproteinase 8 (MMP-8), or neutrophil collagenase, degrades interstitial collagens, acting preferentially on collagen type I. Increased full-length MMP-8 protein was associated with infiltration into the skin of neutrophils, which are the major cell type that expresses MMP-8. MMP-8 is synthesized and stored in specific granules in neutrophil leukocytes. MMP-8 activity is therefore regulated by factors such as surface-bound ligands (IgG or complement components) that release it through degranulation. Once released and activated through proteolytic or oxidative mechanisms, MMP-8 plays a major role in the connective tissue turnover that accompanies inflammatory processes.
Physical Appearance	Sterile Filtered clear solution.
Purity	Greater than 90% as determined by SDS-PAGE.
Formulation	The protein Solution (100 units/ml) in 0.05 M Tris-HCl buffer, pH 7.6, containing 0.2 M NaCl, 5 mM CaCl ₂ , 0.0025% NaN ₃ and 0.1% BSA.

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Biological Activity	100 units/ml after activation with APMA by solution assay method. One unit of collagenolytic activity is defined as the cleavage of 1 μ g of collagen per minute by the solution method.
Applications	Used as a standard for analyzing mammalian collagenase activity.
Stability	MMP-8 although stable at 14°C for 1 week, should be stored desiccated below -18°C. Please prevent freeze-thaw cycles.

GENE INFORMATION

Gene Name	MMP8 matrix metalloproteinase 8 (neutrophil collagenase) [Homo sapiens]
Synonyms	MMP8; matrix metalloproteinase 8 (neutrophil collagenase); HNC; CLG1; PMNL-CL; PMNL collagenase; matrix metalloproteinase 8; EC3.4.24.34; MMP-8; PMNL-CL; PMNL collagenase; Matrix metalloproteinase-8
Gene ID	4317
mRNA Refseq	NM_002424
Protein Refseq	NP_002415
MIM	120355
UniProt ID	P22894
Chromosome Location	11q22.3
Function	calcium ion binding; metalloendopeptidase activity; peptidase activity; serine-type

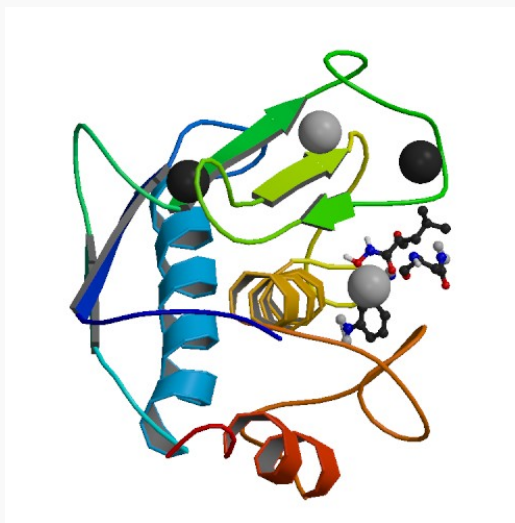
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endopeptidase activity; zinc ion binding

PDB rendering based
on1a85.



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