

Recombinant Human Matrix Metalloproteinase 8

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

SPECIFICATION

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| 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 1g 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

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| 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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