

MMP8

Recombinant Human Matrix Metalloproteinase 8

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|--------------------|----------|------------------|-------|
| Catalog No. | CSI10685 | Quantity: | 1 U |
| | CSI10686 | | 2.5 U |
| | CSI10687 | | 10 U |

Alternate Names: Neutrophil collagenase, Matrix metalloproteinase-8, MMP-8, PMNL collagenase, PMNL-CL, HNC, CLG1.

Description: Full-length Recombinant Human Matrix Metalloproteinase 8 (MMP-8) degrades interstitial collagens by acting preferentially on collagen type I. Increased MMP-8 protein is associated with infiltration of neutrophils into the skin, 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. Recombinant Human Matrix Metalloproteinase-8 produced in *E. coli* is a single, non-glycosylated, polypeptide chain having a MW = 75 kDa and purified by proprietary chromatographic techniques.

Gene ID: 4317

Source: *E. coli*

Molecular Mass: 75 kDa

Formulation: The protein Solution (100 units/ml) in 0.05 M Tris-HCl buffer, pH 7.6, + 0.2 M NaCl + 5 mM CaCl₂ + 0.0025% NaN₃ + 0.1% BSA.

Purity: Greater than 90% as determined by SDS-PAGE.

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 µg of collagen per minute by the solution method.

Applications: Used as a standard for analyzing mammalian collagenase activity.

Storage & Stability: MMP-8 although stable at 4°C for 1 week, should be stored desiccated below -20°C. **Please prevent freeze-thaw cycles.**

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

