



## Product Datasheet

<b>Product Name</b>	Matrix Metalloproteinase-8 Human Recombinant
<b>Cata No</b>	CB500478
<b>Source</b>	<i>Escherichia Coli.</i>
<b>Synonyms</b>	Neutrophil collagenase, EC 3.4.24.34, Matrix metalloproteinase-8, MMP-8, PMNL collagenase, PMNL-CL, HNC, CLG1.

### 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. Matrix Metalloproteinase-8 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain having a molecular mass of 75 kDa. The MMP-8 is purified by proprietary chromatographic techniques.

### Physical Appearance

Sterile Filtered clear solution.

### 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.

### Purity

Greater than 90% as determined by SDS-PAGE.

### Formulation

The protein Solution (100 units/ml) in 0.05M Tris-HCl buffer, pH 7.6, containing 0.2M NaCl, 5mM CaCl<sub>2</sub>, 0.0025% NaN<sub>3</sub> and 0.1% BSA.

### Stability

MMP-8 although stable at 4°C for 1 week, should be stored desiccated below -18°C.

**Please prevent freeze-thaw cycles.**

### Applications

Used as a standard for analyzing mammalian collagenase activity