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Certificate of Analysis and Data Sheet Recombinant Human Matrix Metalloproteinase-8

Catalog No.
228-11131

Source
Escherichia Coli.

Synonyms

Neutrophil collagenase, EC 3.4.24.34, Matrix metalloproteinase-8, MMP-8, PMNL collagenase, PMNL-CL, HNC, CLG1.

Introduction

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.

Description

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.

Source

Escherichia Coli.

Physical Appearance

Sterile Filtered clear solution.

Formulation

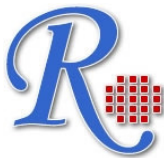
The protein Solution (100 units/ml) in 0.05M Tris-HCl buffer, pH 7.6, containing 0.2M NaCl, 5mM CaCl₂, 0.0025% NaN₃ and 0.1% BSA.

Stability

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

Please prevent freeze-thaw cycles.

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**



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Purity

Greater than 90% as determined by SDS-PAGE.

Applications

Used as a standard for analyzing mammalian collagenase activity.

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.

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