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MMP 8 Human

Catalog #:ENPS-308

For research use only.

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.

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

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered clear solution.

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

Formulation:
The MMP-8 protein solution (100 units/ml) in 0.05M Tris-HCl buffer, pH 7.6, 0.2M NaCl, 5mM CaCl2, 0.0025% NaN3 and 0.1% BSA.

Stability:
MMP-8 althoμgh stable at 4°C for 1 week, should be stored desiccated below -18°C. Please prevent freeze-thaw cycles.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drμgs, agricultural or pesticidal products, food additives or household chemicals.

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

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 throμgh degranulation.Once released and activated throμgh proteolytic or oxidative mechanisms, MMP-8 plays a major role in the connective tissue turnover that accompanies inflammatory processes.

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

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