
Product Data Sheet

Product Name: MMP 8 Human
Cat. No.: GP21939
Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	EC 3.4.24.34; Matrix metalloproteinase-8; MMP-8; PMNL-CL; HNC; CLG1.		
Formulation	The MMP-8 protein solution (100 units/ml) in 0.05M Tris-HCl buffer, pH 7.6, 0.2M NaCl, 5mM CaCl ₂ , 0.0025% NaN ₃ and 0.1% BSA.		

Introduction

Full-length recombinant human neutrophil MMP-8, latent form. Matrix metalloproteinase 8 (MMP-8), 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.

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.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Avoid multiple freeze-thaw cycles.

Background

Matrix Metalloproteinase-8 Human Recombinant produced in E.Coli is a single, non-

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glycosylated, polypeptide chain having a molecular mass of 75 kDa. The MMP-8 is purified by proprietary chromatographic techniques.

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