
Product Data Sheet

Product Name: MMP1 (24-207) Human
 Cat. No.: GP21931
 Batch No.: 1

Product Data

Purity	>98%	Source	HEK293 Cells.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	interstitial collagenase; Fibroblast collagenase; Matrix metalloproteinase-1; MMP-1; MMP1; CLG; CLGN.		
Amino Acid Sequence	CTCVPPHPQT AFCNSDLVIR AKFVGTPEVN QTTLYQRYEI KMTKMYKGFQ ALGDAADIRF VYTPAMESVC GYFHRSHNRS EEFLIAGKLQ DGLLHITTCS FVAPWNSLSL AQRRGFTKTY TVGCEECTVF PCLSIPCKLQ SGTHCLWTDQ LLQGSEKGFQ SRHLACLPRE PGLCTWQSLR SQIAHHHHHH.		
Solubility	It is recommended to add deionized water to prepare a working stock solution of approximately 0.5mg/ml and let the lyophilized pellet dissolve completely.		
Formulation	MMP1 (24-207) filtered (0.4 μ m) and lyophilized from 0.5mg/ml in PBS, pH7.5 and 5% (w/v) Threalose.		

Introduction

MMP-1 (interstitial collagenase) can break down a wide range of substrates including types I, II, III, VII, VIII, and X collagens as well as L-Selectin, pro-TNF, IGFBP-3, IGFBP-5, casein, gelatin, myelin basic protein, pro-MMP2 and pro-MMP9. A significant function of MMP-1 is the degradation of fibrillar collagens in extracellular matrix remodeling. MMP-1 is expressed in fibroblasts, keratinocytes, endothelial cells, monocytes and macrophages. MMP1 can be divided into a number of distinct domains: a prodomain which is cleaved on activation, a catalytic domain containing the zinc binding site and a short hinge region with a carboxyl terminal domain. MMP1 is part of a cluster of MMP genes which localize to chromosome 11q22.3.

Stability

Store lyophilized protein at -20°C . Aliquot the product after reconstitution to avoid

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repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C .

Background

MMP1 (24-207) Human Recombinant is a single, glycosylated polypeptide chain containing 190 amino acids and having a molecular mass of 21.2kDa. MMP1 (24-207) is fused to a 6 a.a C-terminal His tag.

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