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## Product Data Sheet

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Product Name: MMP 13 Human  
 Cat. No.: GP21932  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	CLG3; MANDP1; Matrix metalloproteinase-13; MMP-13; MMP13.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSYNVFPRT LKWSKMNLTY RIVNYTPDMT HSEVEKAFKK AFKVWSDVTP LNFTRLHDGI ADIMISFGIK EHGDFYPPFDG PSGLLAHAFP PGPNYGGDAH FDDDETWTSS SKGYNLFLVA AHEFGHSLGL DHKDPGALM FPIYTYTGKS HFMLPDDDVQ GIQSLYGP GD EDPNPKHPKT PDKCDPSLSL DAITSLRGET MIFKDRFFWR LHPQQVDAEL FLTKSFWPEL PNRIDAAYEH PSHDLIFIFR GRKFWALNGY DILEGYPKKI SELGLPKEVK KISAAVHFED TGKTLLFSGN QVWRYDDTNH IMDKDYPRLI EEDFPGIGDK VDAVYEKNGY IYFFNGPIQF EYSIWSNRIV RVMPANSILW C.		
Formulation	The MMP-13 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 10% glycerol, 0.15M NaCl and 1mM DTT.		

### Introduction

Matrix Metalloproteinase-13 (MMP-13) is an enzyme that is a member of the MMP extracellular protease family. Extracellular protease enzymes, by virtue of their broad substrate specificities<sup>1</sup>, play a role in both normal and disease states of tissue proliferation. Among the targets of MMP-13 are collagen, gelatin, entactin, pro-TNF- $\alpha$ , and chemokine SDF-11-4. MMP-13 is found in its latent form as a 52-56 kDa glycosylated proenzyme. Upon cleavage the 22-46 kDa<sup>5</sup> MMP-1 becomes active in extracellular matrix remodeling. Because of the prominent role that MMP-1 plays in cell migration and metastasis, it is an important target for inhibition screening.

### 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. For long term storage it is recommended to add a carrier protein (0.1%

**Caution: Product has not been fully validated for medical applications. For research use only.**

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HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

MMP-13 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 391 amino acids (104-471 a.a.) and having a molecular mass of 44.7 kDa. MMP-13 is fused to a 23 amino acid His Tag at N-Terminus and purified by proprietary chromatographic techniques.

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