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**Product Data Sheet**


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Product Name: MMP 1 Human  
 Cat. No.: GP21929  
 Batch No.: 1

**Product Data**

|                     |   |                    |                         |
|---------------------|---|--------------------|-------------------------|
| Purity              | >98%  | Source             | Escherichia Coli.       |
| Physical Appearance | solid   | Shipping Condition | Shipped with Ice Packs. |
| Synonyms            | CLG; CLGN; Matrix metalloproteinase-1; MMP-1.   |                    |                         |
| Amino Acid Sequence | MGSSHHHHHH SGLVPRGSH MGSFVLTEGN PRWEQTHLTY RIENYTPDLP<br>RADVDHAIEK AFQLWSNVTP LTFTKVSEGO ADIMISFVRG DHRDNSPFDG<br>PGGNLAHAFQ PGP GIGGDAH FDEDERWTNN FREYNLHRVA AHELGHSLGL<br>SHSTDIGALM YPSYTFSGDV QLAQDDIDGI QAIYGRSQNP VQPIGPQTPK<br>ACDSKLTFDA ITTIRGEVMF FKDRFYMRN PFYPEVELNF ISVFWPQLPN<br>GLEAAYEFAD RDEVRFFKGN KYWAVQGQNV LHGYPKDIYS SFGFPRTVKH<br>IDAALSEENT GKTYFFVANK YWRYDEYKRS MDPGYPKMIA HDFPGIGHKV<br>DAVFMKDGFF YFFHGTRQYK FDPKTKRILT LQKANSWFNC RKN. |                    |                         |
| Formulation         | The MMP 1 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 10% glycerol and 0.4M Urea.   |                    |                         |

**Introduction**

MMP-1 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, IL-1?, IGFBP-3, IGFBP-5, casein, gelatin, ?1 antitrypsin, 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 at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

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

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

MMP 1 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 393 amino acids (100-469a.a) and having a molecular mass of 45kDa. MMP 1 is fused to a 23 amino acid His-tag at N-terminus.

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