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**Product Data Sheet**


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Product Name: MMP 7 Human  
 Cat. No.: GP21938  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Matrilysin; EC 3.4.24.23; Pump-1 protease; Uterine metalloproteinase; Matrix metalloproteinase-7; MMP-7; Matrin; MPSL1; PUMP-1; MMP7.		
Amino Acid Sequence	MYSLFPNSPK WTSKVVTYRI VSYTRDLPHI TVDRLVSKAL NMWGKEIPLH FRKVVWGTAD IMIGFARGAH GDSYPFDGPG NTLAHAFAPG TGLGGDAHFD EDERWTDGSS LGINFLYAAT HELGHSLGMG HSSDPNAVMY PTYGNQDPQN FKLSQDDIKG IQKLYGKRSN SRKK.		
Formulation	MMP7 protein solution (1mg/ml) containing 20mM Tris 8.0 and 10% glycerol.		

**Introduction**

Matrix metalloproteinase-7 (MMP-7) also known as matrilysin and PUMP (EC 3.4.24.23) cleaves a number of substrates including collagen types IV and X, elastin, fibronectin, gelatin, laminin and proteoglycans. MMP-7 is closely related to the stromelysin family members but is encoded by a different gene. MMP-7 is the smallest of all the MMPs consisting of a pro-peptide domain and a catalytic domain. It lacks the hemopexin-like domain common to other members of the MMPs. MMP-7 is secreted as a 28 kDa proenzyme and can be activated in vitro by organomercurials and trypsin and in vivo by MMP-3 to a 18 kDa active MMP-7 enzyme. Once activated, MMP-7 can activate pro-MMP-1 and pro-MMP-9 but not pro-MMP-2. MMP-7 is widely expressed having been reported in elevated levels in cycling endometrium as well as in colorectal cancers and adenomas, hepatocellular carcinomas, rectal carcinomas, and approximately 50% of gliomas.

**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.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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

### Background

MMP-7 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 174 amino acids (95-267 a.a) and having a molecular mass of 19.2kDa. MMP7 is purified by proprietary chromatographic techniques.

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