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32-2544: MMP 1 Recombinant Protein

Alternative Name : CLG,CLGN,Interstitial collagenase,Fibroblast collagenase,Matrix metalloproteinase-1,MMP-1.

Description

Source : Escherichia Coli. 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. 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, 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.

Product Info

Amount :	20 µg
Purification :	Greater than 90% as determined by SDS-PAGE.
Content :	The MMP 1 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 10% glycerol and 0.4M Urea.
Storage condition :	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% HSA or BSA). Avoid multiple freeze-thaw cycles.
Amino Acid :	MGSSHHHHHH SSGLVPRGSH MGSFVLTEGN PRWEQTHLTY RIENYTPDLP RADVDHAIEK AFQLWSNVTP LTFTKVSEGQ ADIMISFVRG DHRDNSPFDG PGGNLAHAFQ PGPGIGGDAH FDEDERWTNN FREYNLHRVA AHELGHSLGL SHSTDIGALM YPSYTFSGDV QLAQDDIDGI QAIYGRSQNP VQPIGPQTPK ACDSKLTFDA ITTIRGEVMF FKDRFYMRTN PFYPEVELNF ISVFWPQLPN GLEAAYEFAD RDEVRFFKGN KYWAVQGQNV LHGYPKDIYS SFGFPRTVKH IDAALSEENT GKTYFFVANK YWRYDEYKRS MDPGYPKMIA HDFPGIGHKV DAVFMKDGFF YFFHGTRQYK FDPKTKRILT LQKANSWFNC RKN.

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