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32-6846: MMP1 Human, sf9

Alternative Name :	Matrix Metallopeptidase 1, Interstitial Collagenase, Fibroblast Collagenase, EC 3.4.24.7, CLG, Matrix Metalloproteinase 1 (Interstitial Collagenase), Matrix Metallopeptidase 1 (Interstitial Collagenase), Matrix Metalloproteinase 1, Matrix Metalloproteinase-1, Matrix Metalloprotease 1, EC 3.4.24, MMP-1, CLGN, Fibroblast collagenase, Matrix metalloproteinase-1, MMP-1.

Description

Source: Sf9, Baculovirus cells.
Sterile Filtered colorless solution.
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.
MMP1 Human Recombinant produced in Sf9 Baculovirus cells is a single, non-glycosylated polypeptide chain containing 460 amino acids (18-469a.a) and having a molecular mass of 53.1kDa (Molecular size on SDS-PAGE will appear at approximately 50-70kDa). MMP1 is fused to an 8 amino acid His-tag at C-terminus & purified by proprietary chromatographic techniques.

Product Info

Amount :	2 µg / 10 µg
Purification :	Greater than 95% as determined by SDS-PAGE.
Content :	MMP1 protein solution (0.25mg/ml) containing 20mM MES buffer (pH 5.5), 10mM CaCl2, 100 mM NaCl, 0.05% Brij35 and 30% glycerol.
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 :	HSFPATLETQ EQDVDLVQKY LEKYYNLKND GRQVEKRRNS GPVVEKLKQM QEFFGLKVTG KPDAETLKVM KQPRCGVPDV AQFVLTEGNP RWEQTHLTYR IENYTPDLPR ADVDHAIEKA FQLWSNVTPL TFTKVSEGQA DIMISFVRGD HRDNSPFDGP GGNLAHAFQP GPGIGGDAHF DEDERWTNNF REYNLHRVAA HELGHSLGLS HSTDIGALMY PSYTFSGDVQ LAQDDIDGIQ AIYGRSQNPV QPIGPQTPKA CDSKLTFDAI TTIRGEVMFF KDRFYMRTNP FYPEVELNFI SVFWPQLPNG LEAAYEFADR DEVRFFKGNK YWAVQGQNVL HGYPKDIYSS FGFPRTVKHI DAALSEENTG KTYFFVANKY WRYDEYKRSM DPGYPKMIAH DFPGIGHKVD AVFMKDGFFY FFHGTRQYKF DPKTKRILTL QKANSWFNCR KNLEHHHHHH.