

## 32-2545: MMP 13 Recombinant Protein

**Alternative Name :** CLG3,MANDP1,Collagenase 3,Matrix metalloproteinase-13,MMP-13,MMP13.

### Description

Source : Escherichia Coli. 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. Latent recombinant human pro-collagenase (MMP-13) also called collagenase-3 truncated from C-terminal.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.

### Product Info

<b>Amount :</b>	10 $\mu$ g
<b>Purification :</b>	Greater than 90% as determined by SDS-PAGE.
<b>Content :</b>	The MMP-13 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 10% glycerol, 0.15M NaCl and 1mM DTT.
<b>Storage condition :</b>	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.
<b>Amino Acid :</b>	MGSSHHHHHH SSGLVPRGSH MGSYNVFPRT LKWSKMNLTY RIVNYTPDMT HSEVEKAFKK AFKVWSDVTP LNFTRLHDGI ADIMISFGIK EHGDFYFPDG PSGLLAHAFP PGPNYGGDAH FDDDETWTSS SKGYNLFLVA AHEFGHSLGL DSKDTPGALM FPIYTYTGKS HFMLPDDDVQ QIQLYGP GD EDPNPKHPKT PDKCDPSLSL DAITSRGET MIFKDRFFWR LHPQQVDAEL FLTksfWPEL PNRIDAAYEH PSHDLIFR GRKFWALNGY DILEGYPKKI SELGLPKEVK KISAAVHFED TGKTLFSGN QVWRYDDTNH IMDKDYPRLI EEDFPGIGDK VDAVYEKNGY IYFFNGPIQF EYSIWSNRIV RVMPANSILW C.

