

## 32-2550: MMP 3 Recombinant Protein

**Alternative Name :** CHDS6,MMP-3,SL-1,STMY,STMY1,STR1,Stromelysin-1,Matrix metalloproteinase-3,Transin-1,MMP3.

### Description

Source : Escherichia Coli. MMP 3 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 401 amino acids (100-477a.a) and having a molecular mass of 45.2kDa. MMP 3 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. MMP-3 enzyme is also known as Stromelysin-1 or as Transin-1 which hydrolyzes natural collagen at physiological pH and temperature. It dissolves the intervertebral nucleus pulposus and annulus fibrosus of Herniated Lumbar Intervertebral Disk . MMP-3 hydrolyzes components of the extracellular matrix like proteoglycan, laminin, fibronectin, gelatin and collagen types III, IV and IX. It also activates pro-MMP-9 and pro-MMP-8 and superactivates plasmin activated MMP-1. MMP-3 is secreted as a latent proenzyme and is activated by a variety of proteinases, e.g. plasmin, trypsin, chymotrypsin, cathepsin G or human neutrophil elastase. MMP-3 was found to be capable of activating the precursor of IL1-beta.

### Product Info

|                            |   |
|----------------------------|---|
| <b>Amount :</b>            | 10 µg   |
| <b>Purification :</b>      | Greater than 90% as determined by SDS-PAGE.   |
| <b>Content :</b>           | The MMP 3 solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, and 10% glycerol.  |
| <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 MGSFRTFPGI PKWRKTHLTY RIVNYTPDLP KDAVDSAVEK ALKVVWEEVTP<br>LTF SRLYEGE ADIMISFAVR EHGDFYPFDG PGNVLAHAYA PGPGINGDAH FDDDEQWTKD TTGTNLFLVA<br>AHEIGHSLGL FHSANTEALM YPLYHSLTDL TRFRLSQDDI NGIQSLYGPP PDSPETPLVP TEPVPPEPGT<br>PANCDPALSF DAVSTLRGEI LIFKDRHFWR KSLRKLEPEL HLISSFWPSL PSGVDAAYEV TSKDLVFIFK<br>GNQFWAIRGN EVRAGYPRGI HTLGFPTVR KIDAAISDKE KNKTYFFVED KYWRFDEKRN SMEPGFPKQI<br>AEDFPGIDSK IDAVFEEFGF FYFTGSSQL EFDPNACKVT HTLKSNSWLN C. |

