

Recombinant Human Matrix Metalloproteinase 3 (Stromelysin 1, Progelatinase), GST-Tagged

Cat. No. MMP3-1383H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MMP-3 Human Recombinant produced in E.Coli is a single, non-glycosylated, Polypeptide chain fused to a GST tag containing 228 amino acids (251-478) and having a total molecular mass of 51kDa. MMP-3 is purified by proprietary chromatographic techniques.
Species	Human
Source	Human
ProteinLength	251-478 a.a.
Description	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.
Form	MMP-3 is supplied in 50mM Tris-Acetate, pH-7.5, 1mM EDTA and 20% Glycerol.
Physical Appearance	Sterile Filtered clear solution.

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 45-1 Ramsey Road, Shirley, NY 11967, USA

Storage

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Please avoid freeze thaw cycles.

GENE INFORMATION

Gene Name [MMP3 matrix metalloproteinase 3 \(stromelysin 1, procollagenase\) \[Homo sapiens \]](#)

Official Symbol [MMP3](#)

Synonyms

MMP3; matrix metalloproteinase 3 (stromelysin 1, procollagenase); SL-1; STMY; STR1; CHDS6; MMP-3; STMY1; MGC126102; MGC126103; MGC126104; stromelysin-1; transin-1; procollagenase; OTTHUMP00000045949; matrix metalloproteinase-3; matrix metalloproteinase 3 (stromelysin 1, procollagenase); Stromelysin-1; Matrix metalloproteinase-3; Transin-1; EC 3.4.24

Gene ID [4314](#)

mRNA Refseq [NM_002422](#)

Protein Refseq [NP_002413](#)

MIM [185250](#)

UniProt ID [P08254](#)

Chromosome Location 11q22.3

Pathway Matrix Metalloproteinases; Rheumatoid arthritis; p75(NTR)-mediated signaling

Function calcium ion binding; metalloendopeptidase activity; peptidase activity; protein

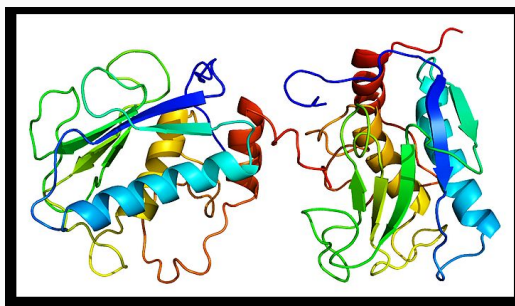
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complex binding; zinc ion binding

PDBrendering based
on 1b3d.



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