

Active Recombinant Human MMP3, His-tagged

Cat. No. MMP3-200H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human MMP3 is a proform of the Human MMP3 [Tyr18-Cys477 (Lys45Glu)] and fused with a polyhistidine tag at the C-terminus. It was expressed in HEK 293Cells.

Species Human

Source HEK293

ProteinLength 18-477 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.

Molecular Mass 52kDa

Purity Greater than 95% as determined by SDS-PAGE.

Formulation Supplied as a 0.2m filtered solution in Tris, NaCl and Brij35.

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Bio-activity The activity was measured by its ability to cleave the fluorogenic peptide substrate, Mca-RPKPVE-Nval-WRK(Dnp)-NH₂. The specific activity is > 150 pmoles/min/g.

Storage Store at -20°C. Avoid multiple freeze-thaw cycles.

OfficialSymbol MMP3

GENE INFORMATION

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

Synonyms matrix metalloproteinase 3 (stromelysin 1, progelatinase); SL-1; STMY; STR1; CHDS6; MMP-3; STMY1; MGC126102; transin-1; MMP3; MGC126103; matrix metalloproteinase 3; CHDS6; Transin-1; proteoglycanase; MGC126104; Matrix metalloproteinase-3; EC 3.4.24.17

Gene ID [4314](#)

mRNA Refseq [NM_002422](#)

Protein Refseq [NP_002413](#)

MIM [185250](#)

UniProt ID [P08254](#)

Chromosome Location 11q22.3

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

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