

Recombinant Human Matrix Metalloproteinase 3 (stromelysin 1, progelatinase)

Cat. No. MMP3-049H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant HumanMMP3 produced in E. coli is a single, non-glycosylated, polypeptide chaincontaining 230 amino acids and having a MW of 22 kDa.
Species	Human
Source	E.coli
Description	MMP3are important regulators of extracellular matrix molecules and cell-cellsignaling and are involved in the regulation of the pericellular space,including the cleavage of matrix proteins. In particular, MMP3 has been shownto be effective in cleaving heparan sulfate proteoglycans. Purifiedrecombinant MMP3 can directly cleave agrin, and it can also remove agrin fromsynaptic basal lamina. MMP3 activity is itself regulated as activation ofMMP3 is lost in denervated muscles.
Form	The protein waslyophilized from a concentrated (1 mg/ml) solution with no additives.
Purity	Greaterthan 98.0% as determined by: Analysis by RP-HPLC, anion-exchange FPLC, andanalysis by reducing and non-reducing SDS-PAGE Silver Stained gel.
Endotoxin Level	Less than0.1 ng/ug (1 EU/ug) of Recombinant MMP3.
Biological Activity	MMP3 is fullybiologically active when compared to standards. The specific activity was foundto be =1,250 mU/mg protein. One unit is defined as the amount of enzyme tha hydrolyzes 1 μmol ol of MCA-Arg-Pro-Lys-Pro-Val-Glu-Nva-Trp-Arg-Lys(DNP)-NH2p

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

er min. at 37°C, pH 7.0.

Reconstitution

It is recommended to reconstitute the lyophilized MICB in sterile 18 MΩ-cm H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

storage

Lyophilized recombinant Human MMP-3 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution rHu MMP-3 should be stored at 4°C between 2-7 days and for future use below -18°C. Please avoid freeze-thaw cycles.

Official Symbol

MMP3

Pathways

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

GENE INFORMATION

Gene Name

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

Synonyms

MMP3; matrix metalloproteinase 3 (stromelysin 1, progelatinase); SL-1; STMY; STR1; CHDS6; MMP-3; STMY1; MGC126102; transin-1; MMP3; MGC126103; matrix metalloproteinase3; 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](#)

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UniProt ID	P08254
Chromosome Location	11q22.3
Function	calcium ion binding; metalloendopeptidase activity; peptidase activity; zinc ion binding
PDB rendering based on 1b3d.	

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