

Matrix Metalloproteinase-3 Active Protein | MMP 3 active protein

Recombinant Human Matrix Metalloproteinase-3, HEK

CATALOG # AAA10817	HOST HEK293 Cells
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PRODUCT SYNONYMS

Matrix Metalloproteinase-3; Recombinant Human Matrix Metalloproteinase-3; HEK; MMP 3 Human; Matrix Metalloproteinase-3 Human Recombinant; Stromelysin-1; EC 3.4.24.17; Matrix metalloproteinase-3; MMP-3; Transin-1; SL-1; STMY; STR1; STMY1; MGC126102; MGC126103; MGC126104; MMP 3 HEK; MMP 3 active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	Greater than 95% as determined by SDS-PAGE.
Form/Format	The MMP-3 (0.30mg/ml) is supplied as a 0.2 um filtered solution in Tris, NaCl and Brij35. Physical Appearance: Sterile Filtered colorless solution.
Concentration	0.30mg/ml (varies by lot)
Sequence Length	477
Biological Activity	The activity was measured by its ability to cleave the fluorogenic peptide substrate, Mca-RPKPVE-Nval-WRK(Dnp)-NH ₂ . The specific activity is > 150 pmoles/min/ ug.Recombinant Human MMP-3 protein pro form needs to be activated with Chymotrypsin.Activation Protocol:1. Dilute MMP3 to 20 ug/ml in the Assay Buffer: 50mM Tris, 10mM CaCl ₂ , 150mM NaCl, 0.05% (w/v) and Brij 35, pH 7.5.2. Activate MMP3 by adding Chymotrypsin(Sigma, Catalog#C3142,1mg/ml stock in 1mM HCl) to a final concentration of 5ug/ml.3. Incubate at 37 degree C for 30 minutes.4. Stop activation with 2mM PMSF. Pre-warm the PMSF to 37 degree C prior to adding to sample.
Preparation and Storage	Store at 4 degree C if entire vial will be used within 2-4 weeks. Store, frozen at -20 degree C for longer periods of time.Avoid multiple freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for MMP 3 active protein	Description: MMP-3 Human Recombinant produced in HEK293 cells is a proform of the Human MMP3 [Tyr18-Cys477 (Lys45Glu)] and fused with a ployhistide tag at the C-terminus, having an Mw of 52kDa. MMP-3 is purified by proprietary chromatographic techniques. Introduction: MMP-3 enzyme is also known as Stromelysin-1or 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 Categories/Family for MMP 3 active protein	Enzymes; Matrix Metalloproteinase

NCBI AND UNIPROT INFORMATION

NCBI GI #	4505217
NCBI GeneID	4314

NCBI Accession #	NP_002413.1
NCBI GenBank Nucleotide #	NM_002422.3
UniProt Accession #	P08254; Q3B7S0; Q6GRF8; B2R8B8
NCBI Official Full Name	stromelysin-1 preproprotein
NCBI Official Synonym Full Names	matrix metallopeptidase 3
NCBI Official Symbol	MMP3
NCBI Official Synonym Symbols	SL-1; STMY; STR1; CHDS6; MMP-3; STMY1
NCBI Protein Information	stromelysin-1; matrix metallopeptidase 3 (stromelysin 1, progelatinase); matrix metalloproteinase 3 (stromelysin 1, progelatinase); matrix metalloproteinase-3; proteoglycanase; transin-1
UniProt Protein Name	Stromelysin-1
UniProt Gene Name	MMP3
UniProt Synonym Gene Names	STMY1; SL-1; MMP-3
UniProt Entry Name	MMP3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/hek293-cells-mmp-3-active-protein/matrix-metalloproteinase-3/10817>