

Matrix Metalloproteinase-1 Active Protein | MMP 1 active protein

Recombinant Human Matrix Metalloproteinase-1, HEK

CATALOG # AAA39015	HOST HEK293 Cells
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PRODUCT SYNONYMS

Matrix Metalloproteinase-1; Recombinant Human Matrix Metalloproteinase-1; HEK; MMP 1 Human; Matrix Metalloproteinase-1 Human Recombinant; Interstitial collagenase; Fibroblast collagenase; Matrix metalloproteinase-1; MMP-1; MMP1; CLG; CLGN; MMP 1 HEK; MMP 1 active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	Greater than 95% as determined by SDS-PAGE.
Form/Format	The MMP-1 is supplied as a 0.2 um filtered solution in MES, NaCl, Glycerol and Brij35. Sterile Filtered colorless solution.
Sequence Length	469
Biological Activity	The activity was measured by its ability to cleave fluorogenic peptide substrate, Mca-KPLGL-Dpa-AR-NH ₂ , The specific activity is > 400 pmoles/min/ ug. Recombinant Human MMP-1 protein pro form needs to be activated with p-aminophenylmercuric acetate (APMA). Activation Protocol: 1. Dilute MMP1 to 50 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 MMP1 by adding APMA to a final concentration of 1mM. (Sigma, Catalog # please inquire) and 100mM stock in DMSO. 3. Incubate at 37 degree C for 2 hours.
Preparation and 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. Avoid multiple freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for MMP 1 active protein	Description: MMP-1 Human Recombinant produced in HEK293 cells is a proform of the Human MMP1 (Met1-Asn469) and fused with a ployhistide tag at the C-terminus, having an Mw of 52kDa. MMP-1 is purified by proprietary chromatographic techniques.
Product Categories/Family for MMP 1 active protein	Enzymes; Matrix Metalloproteinase

NCBI AND UNIPROT INFORMATION

NCBI GI #	4505215
NCBI GeneID	4312
NCBI Accession #	NP_002412.1
NCBI GenBank Nucleotide #	NM_002421.3
UniProt Accession #	P03956 ; P08156
NCBI Official Full Name	interstitial collagenase isoform 1 preproprotein
NCBI Official Synonym Full Names	matrix metallopeptidase 1

NCBI Official Symbol	MMP1
NCBI Official Synonym Symbols	CLG; CLGN
NCBI Protein Information	interstitial collagenase; fibroblast collagenase; matrix metalloproteinase 1 (interstitial collagenase); matrix metalloproteinase 1; matrix metalloproteinase 1
UniProt Protein Name	Interstitial collagenase
UniProt Gene Name	MMP1
UniProt Synonym Gene Names	CLG; MMP-1
UniProt Entry Name	MMP1_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-1-active-protein/matrix-metalloproteinase-1/39015>