

MMP-13 active protein

Recombinant Human MMP-13 Protein

CATALOG #
AAA282161

HOST
HEK293 cells

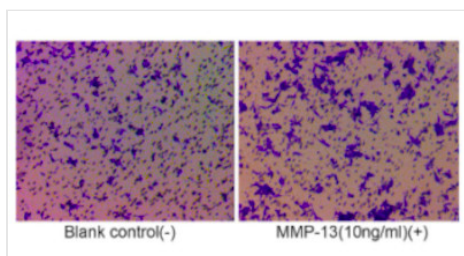
PRODUCT SYNONYMS

MMP-13; Recombinant Human MMP-13 Protein; CLG3; MANDP1; MDST; MMP-13 active protein

PRODUCT SPECIFICATIONS

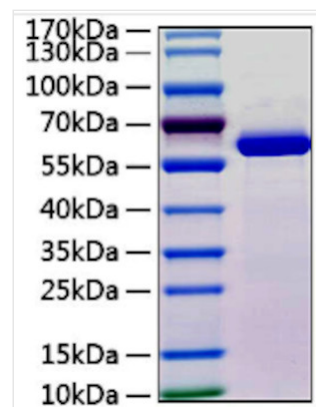
Host	HEK293 cells
Purity/Purification	>95% by SDS-PAGE.
Form/Format	Lyophilized from a 0.22um filtered solution of PBS, pH7.4.
Species	Human
Endotoxin	<0.1EU/ug of the protein by LAL method.
Tag	C-6xHis
Reconstitution	Reconstitute to a concentration of 0.1-0.5mg/mL in sterile distilled water.
BioActivity	Measured in a cell migration assay using A549 cells. 10ng/mL of Recombinant Human MMP-13 can effectively induce A549 cells migration.
Preparation and Storage	Store the lyophilized protein at -20 degree C to -80 degree C for long term. After reconstitution, the protein solution is stable at -20 degree C for 3 months, at 2-8 degree C for up to 1 week. Avoid freeze/thaw cycles.

IMAGES



Application Data

Recombinant Human MMP-13 induces cell migration of the A549 cells. 10 ng/mL of Recombinant Human MMP-13 can effectively induce A549 cells migration.



SDS-PAGE

Recombinant Human MMP-13 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 58 kDa.

ADDITIONAL INFORMATION

Related Product Information for MMP-13 active protein	Recombinant Human MMP-13 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Leu20-Cys471) of human MMP-13 (Accession #NP_002418.1) fused with a 6×His tag at the C-terminus. Background: Matrix metalloproteinases are a family of zinc and calcium dependent endopeptidases. MMP-13 (Collagenase-3) has been demonstrated to degrade a range of extracellular matrix proteins, including collagen types I, II, III, IV, IX, X and XIV, gelatin, aggrecan, perlecan and fibronectin. MMP-13 is proteolytically processed to generate the mature protease. MMP-13 is distinguished from the other human collagenases, it cleaves type II collagen more efficiently than types I and III. MMP-13 is expressed by fibroblasts, chondrocytes and squamous epithelial cells. It may be involved in articular cartilage turnover and cartilage pathophysiology associated with osteoarthritis.
Product Categories/Family for MMP-13 active protein	Other Recombinant Protein

NCBI AND UNIPROT INFORMATION

NCBI GI #	4505209
NCBI GeneID	4322
NCBI Accession #	NP_002418.1
NCBI GenBank Nucleotide #	NM_002427.3
UniProt Accession #	P45452
NCBI Official Full Name	collagenase 3 preproprotein
NCBI Official Synonym Full Names	matrix metallopeptidase 13 (collagenase 3)
NCBI Official Symbol	MMP13
NCBI Official Synonym Symbols	CLG3; MANDP1
NCBI Protein Information	collagenase 3; MMP-13; matrix metalloproteinase 13 (collagenase 3)
UniProt Protein Name	Collagenase 3
UniProt Gene Name	MMP13
UniProt Synonym Gene Names	MMP-13
UniProt Entry Name	MMP13_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.