

MMP-7 Recombinant Protein | MMP7 recombinant protein

Recombinant Human MMP-7 Protein

CATALOG # AAA283372	HOST CHO Cells
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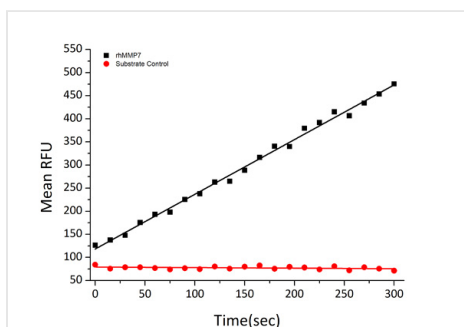
PRODUCT SYNONYMS

MMP-7; Recombinant Human MMP-7 Protein; MMP7; MPSL1; PUMP1; Matrilysin; 3.4.24.23; Matrin; Matrix metalloproteinase-7; Pump-1 protease; Uterine metalloproteinase; MMP7 recombinant protein

PRODUCT SPECIFICATIONS

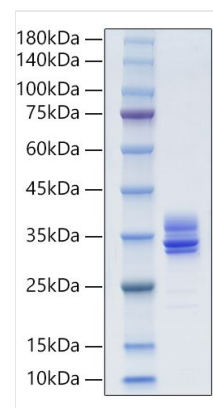
Host	CHO Cells
Purity/Purification	>90% by SDS-PAGE.
Form/Format	Lyophilized from 0.22 um filtered solution in 10mM HEPES, 5mM CaCl ₂ , 150mM NaCl (pH7.5). Normally 8% trehalose is added as protectant before lyophilization.
Sequence	MRLTVLCAVC LLPGSLALPL PQEAGGMSSEL QWEQAQDYLK RFYLYDSETK NANSLEAKLK EMQKFFGLPI TGMLNSRVIE IMQKPRCGVP DVAEYSLFPN SPKWTSKVVY YRIVSYTRDL PHITVDRLVS KALNMWGKEI PLHFRKVVWG TADIMIGFAR GAHGDSYPFD GPGNTLAHAF APGTGLGGDA HFEDERWTD GSSLGINFLY AATHELGHSL GMGHSSDPNA VMYPTYGNGD PQNFKLSQDD IKGIQKLYGK RSNRKK
Species	Human
Tag	C-His
Endotoxin	<0.01EU/ug of the protein by LAL method
Bio-Activity	Measured by its ability to cleave the fluorogenic peptide substrate, Mca-PLGL-Dpa-AR-NH ₂ (RD #ES001). The specific activity is >812 pmol/min/ug, as measured under the described conditions.
Preparation and Storage	Store at -20 degree C. Store the lyophilized protein at -20 degree C to -80 degree C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20 degree C for 3 months, at 2-8 degree C for up to 1 week.

IMAGES



Application Data

Recombinant Human MMP-7 cleave the fluorogenic peptide substrate, Mca-PLGL-Dpa-AR-NH₂ (RD#ES001). The specific activity is >812 pmol/min/ug, as measured under the described conditions.



SDS-PAGE

Recombinant Human MMP-7 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 30-40 kDa.

ADDITIONAL INFORMATION

Related Product Information for MMP7 recombinant protein	MMP-7, Degrades casein, gelatins of types I, III, IV, and V, and fibronectin. Activates procollagenase. Matrix metalloproteinases (MMPs) are a family of zinc and calcium dependent endopeptidases with the combined ability to degrade all the components of the extracellular matrix. MMP-7 (matrilysin) is expressed in epithelial cells of normal and diseased tissues, and is capable of digesting a large series of proteins of the extracellular matrix including collagen IV and X, gelatin, casein, laminin, aggrecan, entactin, elastin and versican. MMP-7 is implicated in the activation of other proteinases such as plasminogen, MMP-1, MMP-2, and MMP-9. In addition to its roles in connective tissue remodeling and cancer, MMP-7 also regulates intestinal alpha ?defensin activation in innate host defense, releases tumor necrosis factor-alpha in a model of herniated disc resorption, and cleaves FasL to generate a soluble form in a model of prostate involution. Structurally, MMP-7 is the smallest of the MMPs and consists of two domains: a pro-domain that is cleaved upon activation and a catalytic domain containing the zinc-binding site.
Product Categories/Family for MMP7 recombinant protein	Other Recombinant Protein; Proteins

NCBI AND UNIPROT INFORMATION

NCBI GI #	4505219
NCBI GeneID	4316
NCBI Accession #	NP_002414.1
NCBI GenBank Nucleotide #	NM_002423.3
UniProt Accession #	P09237; Q9BTK9
UniProt Protein Name	Matrilysin
UniProt Gene Name	MMP7
UniProt Synonym Gene Names	MPSL1; PUMP1; MMP-7
UniProt Entry Name	MMP7_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.