

Active Recombinant Monkey MMP7 Protein, His-tagged

Cat. No. MMP7-11123M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Cynomolgus MMP-7 Protein, His Tag is expressed from CHO cells. It contains AA Leu 21 - Lys 270 (Accession # G7PNJ9). This protein carries a polyhistidine tag at the C-terminus. Predicted N-terminus: Leu 21
Species	Monkey
Source	CHO
ProteinLength	21-270 aa
Description	MMP-7 (matrilysin), the smallest zinc-dependent endopeptidase in the MMP family, lacks a hemopexin domain but features a catalytic zinc-binding motif (HEXXHXXGXXH) critical for degrading extracellular matrix (ECM) components, including collagens III/IV/V, elastin, and proteoglycans. Activated via proteolytic cleavage (e.g., by MMP-3), it promotes tissue remodeling in wound healing while driving pathological processes such as tumor invasion (via E-cadherin degradation and Wnt/β-catenin activation) and fibrosis (via β-catenin-mediated renal damage). Overexpressed in epithelial cancers, MMP-7 correlates with metastasis but paradoxically shows protective genetic variants in some contexts. It also processes non-ECM substrates like TNF-α and Fas ligand, amplifying inflammation and oncogenesis. In fibrotic diseases, elevated serum MMP-7 predicts progression, serving as a diagnostic biomarker. Therapeutic strategies targeting MMP-7, including inhibitors and monoclonal antibodies, highlight its dual roles as both a driver of ECM disruption and a modulator of immune-tumor interactions.

 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

Form	Supplied as 0.2 µm filtered solution in 10 mM HEPES, 150 mM NaCl, pH7.5 with glycerol as protectant.
Bio-activity	Measured by its ability to cleave the fluorogenic peptide substrate Mca-PLGL-Dpa-AR-NH ₂ . The specific activity is >350 pmol/min/µg.
Molecular Mass	The protein has a calculated MW of 29.9 kDa. The protein migrates as 30-32 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU/µg by the LAL method/rFC method.
Purity	>90% as determined by SDS-PAGE. >90% as determined by SEC-HPLC.
Storage	This product is stable after storage at: The product MUST be stored at -70 centigrade or lower upon receipt; -70 centigrade for 3 months under sterile conditions. Please avoid repeated freeze-thaw cycles.
Concentration	0.2 mg/mL
Shipping	This product is supplied and shipped with dry ice, please inquire the shipping cost.

GENE INFORMATION

Gene Name	MMP7 matrix metalloproteinase 7 [<i>Macaca fascicularis</i> (crab-eating macaque)]
Official Symbol	MMP7
Synonyms	MMP7; matrix metalloproteinase 7; matrilysin; matrix metalloproteinase 7 (matrilysin, uterine)

 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

Gene ID	102139796
mRNA Refseq	XM_005579462
Protein Refseq	XP_005579519
UniProt ID	G7PNJ9

 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